



Generate Collection

☐ Print

L2: Entry 7 of 8

File: USPT

Mar 23, 1999

US-PAT-NO: 5887243

DOCUMENT-IDENTIFIER: US 5887243 A

** See image for Certificate of Correction **

TITLE: Signal processing apparatus and methods

DATE-ISSUED: March 23, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Harvey; John Christopher	New York	NY		
Cuddihy; James William	New York	NY		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE	CODE
Personalized Media Communications, L.L.C.	New York	NY				02

APPL-NO: 08/ 480060 [PALM]

DATE FILED: June 7, 1995

PARENT-CASE:

CROSS-REFERENCE TO RELATED APPLICATIONS This is a continuation of application Ser. No. 08/113,329 filed Aug. 30, 1993, herein incorporated by reference in its entirety, which is a continuation of application Ser. No. 08/056,501 filed May 3, 1993, now U.S. Pat. No. 5,335,277, which is a continuation of application Ser. No. 07/849,226, filed Mar. 10, 1992, now U.S. Pat. No. 5,233,654, which is a continuation of application Ser. No. 07/588,126 filed Sep. 25, 1990, now U.S. Pat. No. 5,109,414, which is a continuation of application Ser. No. 07/096,096, filed Sep. 11, 1987, now U.S. Pat. No. 4,965,825, which is a continuation-in-part of application Ser. No. 06/829,531, filed Feb. 14, 1986, now U.S. Pat. No. 4,704,725, which is a continuation of application Ser. No. 06/317,510, filed Nov. 3, 1981, now U.S. Pat. No. 4,694,490.

INT-CL: [06] H04 H 1/00

US-CL-ISSUED: 455/3.1; 455/6.2, 348/9, 348/10

US-CL-CURRENT: 725/136; 725/122, 725/135, 725/139, 725/142, 725/37

FIELD-OF-SEARCH: 348/1, 348/2, 348/3, 348/6, 348/7, 348/8, 348/9, 348/10, 348/11, 348/12, 348/468, 455/2, 455/3.1, 455/3.2, 455/3.3, 455/4.1, 455/4.2, 455/6.2, 455/6.3

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

☐ Search Selected☐ Search ALL

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/> Re27810	November 1973	Buehrle	325/321

<input type="checkbox"/>	Re31735	November 1984	Davidson	358/124
<input type="checkbox"/>	Re31977	August 1985	Ott	364/200
<input type="checkbox"/>	Re32187	June 1986	Barda et al.	340/706
<input type="checkbox"/>	Re32326	January 1987	Nagel et al.	348/466
<input type="checkbox"/>	33189	September 1861	Dougal	
<input type="checkbox"/>	2418127	April 1947	Labin	178/44
<input type="checkbox"/>	2510046	May 1950	Ellett et al.	178/5.6
<input type="checkbox"/>	2511085	June 1950	Smith	179/1
<input type="checkbox"/>	2563448	August 1951	Aram	178/5.1
<input type="checkbox"/>	2573349	October 1951	Miller et al.	177/353
<input type="checkbox"/>	2619530	November 1952	Roschke	178/5.1
<input type="checkbox"/>	2731197	January 1956	Parker et al.	235/60
<input type="checkbox"/>	2769023	October 1956	Loew et al.	178/5.1
<input type="checkbox"/>	2788387	April 1957	Druz	178/5.1
<input type="checkbox"/>	2864885	December 1958	Morris	178/5.1
<input type="checkbox"/>	2866962	December 1958	Ellet	340/147
<input type="checkbox"/>	2875270	February 1959	Wendt et al.	178/5.1
<input type="checkbox"/>	2892882	June 1959	Hughes	178/5.1
<input type="checkbox"/>	2972008	February 1961	Ridenour et al.	178/5.1
<input type="checkbox"/>	3016091	January 1962	Daniele	162/391
<input type="checkbox"/>	3071642	January 1963	Mountjoy et al.	178/5.1
<input type="checkbox"/>	3071649	January 1963	Goodall	179/1.5
<input type="checkbox"/>	3107274	October 1963	Roschke	178/5.1
<input type="checkbox"/>	3133986	May 1964	Morris et al.	178/5.1
<input type="checkbox"/>	3213201	October 1965	Flood et al.	179/15
<input type="checkbox"/>	3238297	March 1966	Pawley et al.	178/22
<input type="checkbox"/>	3244806	April 1966	Morris	348/1
<input type="checkbox"/>	3251051	May 1966	Harries	340/345
<input type="checkbox"/>	3304416	February 1967	Wolf	235/92
<input type="checkbox"/>	3336437	August 1967	Brouard et al.	178/5.4
<input type="checkbox"/>	3363250	January 1968	Jacobson	343/225
<input type="checkbox"/>	3440427	April 1969	Kammer	250/210
<input type="checkbox"/>	3470309	September 1969	Nyberg	178/5.1
<input type="checkbox"/>	3478164	November 1969	Southworth	178/6.6
<input type="checkbox"/>	3478166	November 1969	Reiter et al.	178/5.1
<input type="checkbox"/>	3485946	December 1969	Jackson et al.	178/6
<input type="checkbox"/>	3493674	February 1970	Houghton	178/5.6
<input type="checkbox"/>	3500327	March 1970	Belcher et al.	340/154

<input type="checkbox"/>	3526843	September 1970	Sanville	329/104
<input type="checkbox"/>	3531583	September 1970	Walker	348/3
<input type="checkbox"/>	3531586	September 1970	Bass et al.	178/6
<input type="checkbox"/>	3536833	October 1970	Guanella	178/22
<input type="checkbox"/>	3546684	December 1970	Maxwell et al.	340/172.5
<input type="checkbox"/>	3560936	February 1971	Busch	340/172.5
<input type="checkbox"/>	3564509	February 1971	Perkins et al.	340/172.5
<input type="checkbox"/>	3569937	March 1971	Hoetter	340/171
<input type="checkbox"/>	3573747	April 1971	Adams et al.	340/172.5
<input type="checkbox"/>	3576391	April 1971	Houghton	178/5.6
<input type="checkbox"/>	3584142	June 1971	Schoeffler	178/6.8
<input type="checkbox"/>	3601528	August 1971	McVoy	178/5.1
<input type="checkbox"/>	3602891	August 1971	Clark et al.	340/172.5
<input type="checkbox"/>	3609697	September 1971	Blevins et al.	340/172.5
<input type="checkbox"/>	3639686	February 1972	Walker et al.	178/5.8R
<input type="checkbox"/>	3649749	March 1972	Gibson	178/5.6
<input type="checkbox"/>	3651261	March 1972	Guanella	178/22
<input type="checkbox"/>	3651471	March 1972	Haselwood et al.	340/172.5
<input type="checkbox"/>	3657699	April 1972	Rocher et al.	340/146.1
<input type="checkbox"/>	3659046	April 1972	Angeleri et al.	178/22
<input type="checkbox"/>	3666888	May 1972	Sekimoto	178/69.5TV
<input type="checkbox"/>	3668307	June 1972	Face et al.	178/5.6
<input type="checkbox"/>	3669307	June 1972	Face et al.	178/5.6
<input type="checkbox"/>	3683111	August 1972	Southworth	178/6
<input type="checkbox"/>	3684823	August 1972	McVoy	178/5.1
<input type="checkbox"/>	3693090	September 1972	Gabriel	325/308
<input type="checkbox"/>	3696297	October 1972	Otero	455/45
<input type="checkbox"/>	3703684	November 1972	McVoy	325/31
<input type="checkbox"/>	3712956	January 1973	Lemelson	178/6.6A
<input type="checkbox"/>	3723637	March 1973	Fujio et al.	178/5.2R
<input type="checkbox"/>	3725672	April 1973	Reuter	307/208
<input type="checkbox"/>	3726992	April 1973	Eguchi et al.	178/5.6
<input type="checkbox"/>	3728480	April 1973	Baer	178/6.8
<input type="checkbox"/>	3729581	April 1973	Anderson	178/6.8
<input type="checkbox"/>	3731197	May 1973	Clark	325/32
<input type="checkbox"/>	3733430	May 1973	Thompson et al.	358/84
<input type="checkbox"/>	3733431	May 1973	Kirk, Jr. et al.	178/5.1
<input type="checkbox"/>	3736369	May 1973	Vogelman et al.	178/5.1

<input type="checkbox"/>	<u>3743767</u>	July 1973	Bitzer et al.	178/5.6
<input type="checkbox"/>	<u>3746799</u>	July 1973	Gentges	178/22
<input type="checkbox"/>	<u>3749845</u>	July 1973	Fraser	179/15
<input type="checkbox"/>	<u>3752908</u>	August 1973	Boenke et al.	178/5.6
<input type="checkbox"/>	<u>3755624</u>	August 1973	Sekimoto	178/69.5TV
<input type="checkbox"/>	<u>3757225</u>	September 1973	Ukicki	325/308
<input type="checkbox"/>	<u>3769579</u>	October 1973	Harney	325/31
<input type="checkbox"/>	<u>3773977</u>	November 1973	Guanella	179/1.5
<input type="checkbox"/>	<u>3773979</u>	November 1973	Kirk, Jr. et al.	179/15FD
<input type="checkbox"/>	<u>3777053</u>	December 1973	Wittig et al.	178/5.1
<input type="checkbox"/>	<u>3789131</u>	January 1974	Harney	178/5.1
<input type="checkbox"/>	<u>3789137</u>	January 1974	Newell	178/6.6
<input type="checkbox"/>	<u>3790700</u>	February 1974	Callais et al.	358/86
<input type="checkbox"/>	<u>3794922</u>	February 1974	Osborn et al.	325/53
<input type="checkbox"/>	<u>3795763</u>	March 1974	Golding et al.	178/5.6
<input type="checkbox"/>	<u>3798359</u>	March 1974	Feistel	178/22
<input type="checkbox"/>	<u>3798610</u>	March 1974	Bliss et al.	340/172.5
<input type="checkbox"/>	<u>3803491</u>	April 1974	Osborn	325/53
<input type="checkbox"/>	<u>3806814</u>	April 1974	Forbes	325/309
<input type="checkbox"/>	<u>3813482</u>	May 1974	Blonder	178/5.1
<input type="checkbox"/>	<u>3819852</u>	June 1974	Wolf	178/5.6
<input type="checkbox"/>	<u>3824332</u>	July 1974	Horowitz	178/5.1
<input type="checkbox"/>	<u>3824467</u>	July 1974	French	325/32
<input type="checkbox"/>	<u>3825893</u>	July 1974	Bossen et al.	340/146.1
<input type="checkbox"/>	<u>3826863</u>	July 1974	Johnson	178/5.1
<input type="checkbox"/>	<u>3833757</u>	September 1974	Kirk, Jr. et al.	178/5.6
<input type="checkbox"/>	<u>3835387</u>	September 1974	Rookes et al.	325/55
<input type="checkbox"/>	<u>3836888</u>	September 1974	Boenke et al.	340/172.5
<input type="checkbox"/>	<u>3842196</u>	October 1974	Louglin	358/12
<input type="checkbox"/>	<u>3845391</u>	October 1974	Crosby	325/64
<input type="checkbox"/>	<u>3848082</u>	November 1974	Summers	348/460
<input type="checkbox"/>	<u>3848193</u>	November 1974	Martin et al.	325/53
<input type="checkbox"/>	<u>3849729</u>	November 1974	Van Baggem	325/31
<input type="checkbox"/>	<u>3859458</u>	January 1975	Takezawa et al.	178/5.8R
<input type="checkbox"/>	<u>3859596</u>	January 1975	Jennery et al.	325/31
<input type="checkbox"/>	<u>3875329</u>	April 1975	Nagel	178/6.8
<input type="checkbox"/>	<u>3882289</u>	May 1975	Walding et al.	200/11D
<input type="checkbox"/>	<u>3882392</u>	May 1975	Harney	325/53

<input type="checkbox"/>	<u>3885089</u>	May 1975	Callais et al.	178/5.1
<input type="checkbox"/>	<u>3886302</u>	May 1975	Kosco	178/5.1
<input type="checkbox"/>	<u>3886454</u>	May 1975	Oakley et al.	325/52
<input type="checkbox"/>	<u>3889054</u>	June 1975	Nagel et al.	178/6.8
<input type="checkbox"/>	<u>3890461</u>	June 1975	Vogelman et al.	178/5.1
<input type="checkbox"/>	<u>3891792</u>	June 1975	Kimura	178/5.8R
<input type="checkbox"/>	<u>3893031</u>	July 1975	Majeau et al.	325/32
<input type="checkbox"/>	<u>3894176</u>	July 1975	Mellon	178/5.1
<input type="checkbox"/>	<u>3894177</u>	July 1975	Howell et al.	178/5.6
<input type="checkbox"/>	<u>3896262</u>	July 1975	Hudspeth et al.	178/5.1
<input type="checkbox"/>	<u>3896266</u>	July 1975	Waterbury	179/1SB
<input type="checkbox"/>	<u>3899633</u>	August 1975	Sorenson et al.	178/5.1
<input type="checkbox"/>	<u>3906450</u>	September 1975	Prado, Jr.	340/150
<input type="checkbox"/>	<u>3911216</u>	October 1975	Bartek et al.	178/22
<input type="checkbox"/>	<u>3914534</u>	October 1975	Forbes	178/5.1
<input type="checkbox"/>	<u>3916091</u>	October 1975	Kirk, Jr. et al.	178/5.1
<input type="checkbox"/>	<u>3919462</u>	November 1975	Hartung et al.	178/5.1
<input type="checkbox"/>	<u>3921151</u>	November 1975	Guanella	340/172.5
<input type="checkbox"/>	<u>3924059</u>	December 1975	Horowitz	178/5.1
<input type="checkbox"/>	<u>3924187</u>	December 1975	Dormans	325/52
<input type="checkbox"/>	<u>3927250</u>	December 1975	Rainger	178/5.6
<input type="checkbox"/>	<u>3934079</u>	January 1976	Barnhart	178/5.1
<input type="checkbox"/>	<u>3936593</u>	February 1976	Aaronson et al.	178/5.1
<input type="checkbox"/>	<u>3936594</u>	February 1976	Schubin et al.	178/5.1
<input type="checkbox"/>	<u>3936595</u>	February 1976	Yanagimachi et al.	348/24
<input type="checkbox"/>	<u>3936868</u>	February 1976	Thorpe	358/22
<input type="checkbox"/>	<u>3943447</u>	March 1976	Shomo, III	325/308
<input type="checkbox"/>	<u>3947624</u>	March 1976	Miyake	178/6
<input type="checkbox"/>	<u>3947882</u>	March 1976	Lightner	360/92
<input type="checkbox"/>	<u>3947972</u>	April 1976	Freeman	35/8A
<input type="checkbox"/>	<u>3949313</u>	April 1976	Tamada et al.	329/106
<input type="checkbox"/>	<u>3950607</u>	April 1976	Southworth et al.	178/6
<input type="checkbox"/>	<u>3950618</u>	April 1976	Bloisi	179/2AS
<input type="checkbox"/>	<u>3956615</u>	May 1976	Anderson et al.	235/61.7B
<input type="checkbox"/>	<u>3958081</u>	May 1976	Ehrsam et al.	178/22
<input type="checkbox"/>	<u>3961137</u>	June 1976	Hutt et al.	178/68
<input type="checkbox"/>	<u>3970790</u>	July 1976	Guanella	179/1.5S
<input type="checkbox"/>	<u>3973206</u>	August 1976	Haselwood et al.	325/455

<input type="checkbox"/>	<u>3975583</u>	August 1976	Meadows	348/460
<input type="checkbox"/>	<u>3975585</u>	August 1976	Kirk, Jr. et al.	178/5.1
<input type="checkbox"/>	<u>3978449</u>	August 1976	Sanders et al.	340/146.1
<input type="checkbox"/>	<u>3982064</u>	September 1976	Barnaby	348/467
<input type="checkbox"/>	<u>3982065</u>	September 1976	Barnaby et al.	178/5.8
<input type="checkbox"/>	<u>3984637</u>	October 1976	Caudill et al.	179/2
<input type="checkbox"/>	<u>3987397</u>	October 1976	Belcher et al.	325/308
<input type="checkbox"/>	<u>3987398</u>	October 1976	Fung	325/309
<input type="checkbox"/>	<u>3988528</u>	October 1976	Yanagimachi et al.	178/5.6
<input type="checkbox"/>	<u>3990012</u>	November 1976	Karnes	325/308
<input type="checkbox"/>	<u>3990050</u>	November 1976	Kolettis et al.	340/172.5
<input type="checkbox"/>	<u>3996583</u>	December 1976	Hutt et al.	340/324
<input type="checkbox"/>	<u>3996586</u>	December 1976	Dillon et al.	340/347DD
<input type="checkbox"/>	<u>3997718</u>	December 1976	Ricketts et al.	178/6.8
<input type="checkbox"/>	<u>4004085</u>	January 1977	Makino et al.	340/324
<input type="checkbox"/>	<u>4008369</u>	February 1977	Theurer et al.	358/84
<input type="checkbox"/>	<u>4013875</u>	March 1977	McGlynn	235/150.2
<input type="checkbox"/>	<u>4015286</u>	March 1977	Russell	358/13
<input type="checkbox"/>	<u>4016361</u>	April 1977	Pandey	358/83
<input type="checkbox"/>	<u>4017697</u>	April 1977	Larson	200/5A
<input type="checkbox"/>	<u>4019201</u>	April 1977	Hartung et al.	358/124
<input type="checkbox"/>	<u>4020419</u>	April 1977	Caspari et al.	325/421
<input type="checkbox"/>	<u>4024574</u>	May 1977	Nieson	358/117
<input type="checkbox"/>	<u>4024575</u>	May 1977	Harney et al.	358/118
<input type="checkbox"/>	<u>4025851</u>	May 1977	Haselwood et al.	325/31
<input type="checkbox"/>	<u>4025947</u>	May 1977	Michael	358/86
<input type="checkbox"/>	<u>4025948</u>	May 1977	Loshin	358/122
<input type="checkbox"/>	<u>4026555</u>	May 1977	Kirschner et al.	273/85
<input type="checkbox"/>	<u>4027267</u>	May 1977	Larsen	329/106
<input type="checkbox"/>	<u>4027331</u>	May 1977	Nicol	358/135
<input type="checkbox"/>	<u>4031548</u>	June 1977	Kato et al.	358/188
<input type="checkbox"/>	<u>4032972</u>	June 1977	Saylor	358/142
<input type="checkbox"/>	<u>4042958</u>	August 1977	Saylor et al.	358/141
<input type="checkbox"/>	<u>4044376</u>	August 1977	Porter	358/84
<input type="checkbox"/>	<u>4045814</u>	August 1977	Hartung et al.	358/141
<input type="checkbox"/>	<u>4048562</u>	September 1977	Haselwood et al.	325/31
<input type="checkbox"/>	<u>4048619</u>	September 1977	Forman, Jr. et al.	340/154
<input type="checkbox"/>	<u>4049906</u>	September 1977	Hafner et al.	178/2C

<input type="checkbox"/>	<u>4052719</u>	October 1977	Hutt et al.	340/324
<input type="checkbox"/>	<u>4052737</u>	October 1977	Robertson et al.	348/6
<input type="checkbox"/>	<u>4054911</u>	October 1977	Fletcher et al.	348/463
<input type="checkbox"/>	<u>4055848</u>	October 1977	Fearnside	358/8
<input type="checkbox"/>	<u>4057829</u>	November 1977	Moorehead	358/86
<input type="checkbox"/>	<u>4058830</u>	November 1977	Gulnet et al.	358/86
<input type="checkbox"/>	<u>4064490</u>	December 1977	Nagel	364/200.09
<input type="checkbox"/>	<u>4068264</u>	January 1978	Pires	358/122
<input type="checkbox"/>	<u>4070693</u>	January 1978	Shutterly	358/123
<input type="checkbox"/>	<u>4074315</u>	February 1978	Kawamura et al.	358/142
<input type="checkbox"/>	<u>4075660</u>	February 1978	Horowitz	358/124
<input type="checkbox"/>	<u>4078316</u>	March 1978	Freeman	35/8A
<input type="checkbox"/>	<u>4079419</u>	March 1978	Siegle et al.	358/193
<input type="checkbox"/>	<u>4081612</u>	March 1978	Hafner	179/15BA
<input type="checkbox"/>	<u>4081753</u>	March 1978	Miller	325/396
<input type="checkbox"/>	<u>4081754</u>	March 1978	Jackson	325/396
<input type="checkbox"/>	<u>4081831</u>	March 1978	Tang et al.	358/114
<input type="checkbox"/>	<u>4081832</u>	March 1978	Sherman	
<input type="checkbox"/>	<u>4086434</u>	April 1978	Bocchi	79/2AM
<input type="checkbox"/>	<u>4088958</u>	May 1978	Suzuki et al.	325/396
<input type="checkbox"/>	<u>4091417</u>	May 1978	Nieson	358/117
<input type="checkbox"/>	<u>4091471</u>	May 1978	Nieson	358/117
<input type="checkbox"/>	<u>4095258</u>	June 1978	Sperber	358/120
<input type="checkbox"/>	<u>4096524</u>	June 1978	Scott	358/85
<input type="checkbox"/>	<u>4096542</u>	June 1978	Pappas et al.	361/196
<input type="checkbox"/>	<u>4099258</u>	July 1978	Parsons	364/900
<input type="checkbox"/>	<u>4104486</u>	August 1978	Martin et al.	179/2
<input type="checkbox"/>	<u>4104681</u>	August 1978	Saylor et al.	358/141
<input type="checkbox"/>	<u>4107734</u>	August 1978	Percy et al.	358/84
<input type="checkbox"/>	<u>4107735</u>	August 1978	Frobach	358/84
<input type="checkbox"/>	<u>4112317</u>	September 1978	Everswick	307/308
<input type="checkbox"/>	<u>4112383</u>	September 1978	Burgert	329/50
<input type="checkbox"/>	<u>4112464</u>	September 1978	Gulf et al.	358/122
<input type="checkbox"/>	<u>4114841</u>	September 1978	Muhlfelder et al.	244/166
<input type="checkbox"/>	<u>4115662</u>	September 1978	Gulnet et al.	179/15BV
<input type="checkbox"/>	<u>4115807</u>	September 1978	Pires	358/122
<input type="checkbox"/>	<u>4117605</u>	October 1978	Kurland et al.	35/9A
<input type="checkbox"/>	<u>4120003</u>	October 1978	Mitchell et al.	358/142

<input type="checkbox"/>	<u>4120030</u>	October 1978	Johnstine	364/200
<input type="checkbox"/>	<u>4124887</u>	November 1978	Johnson et al.	364/107
<input type="checkbox"/>	<u>4126762</u>	November 1978	Martin et al.	179/2A
<input type="checkbox"/>	<u>4130833</u>	December 1978	Choenet	358/122
<input type="checkbox"/>	<u>4131881</u>	December 1978	Robinson	340/167R
<input type="checkbox"/>	<u>4134127</u>	January 1979	Campioni	358/16
<input type="checkbox"/>	<u>4135156</u>	January 1979	Sanders et al.	370/57
<input type="checkbox"/>	<u>4135213</u>	January 1979	Wintfeld et al.	358/142
<input type="checkbox"/>	<u>4138726</u>	February 1979	Girault et al.	364/521
<input type="checkbox"/>	<u>4139860</u>	February 1979	Micic et al.	358/22
<input type="checkbox"/>	<u>4142156</u>	February 1979	Freund	325/309
<input type="checkbox"/>	<u>4144495</u>	March 1979	Metzger	325/4
<input type="checkbox"/>	<u>4145717</u>	March 1979	Guif et al.	358/121
<input type="checkbox"/>	<u>4148066</u>	April 1979	Saylor	348/463
<input type="checkbox"/>	<u>4156253</u>	May 1979	Steudel	358/11
<input type="checkbox"/>	<u>4156931</u>	May 1979	Adelman et al.	364/900
<input type="checkbox"/>	<u>4160120</u>	July 1979	Barnes et al.	178/22
<input type="checkbox"/>	<u>4161728</u>	July 1979	Insam	340/750
<input type="checkbox"/>	<u>4161751</u>	July 1979	Ost	358/114
<input type="checkbox"/>	<u>4162513</u>	July 1979	Beyers, Jr. et al.	358/191
<input type="checkbox"/>	<u>4163252</u>	July 1979	Mistry et al.	358/118
<input type="checkbox"/>	<u>4163254</u>	July 1979	Block et al.	358/122
<input type="checkbox"/>	<u>4163255</u>	July 1979	Pires	358/122
<input type="checkbox"/>	<u>4168396</u>	September 1979	Best	178/22
<input type="checkbox"/>	<u>4170782</u>	October 1979	Miller	358/84
<input type="checkbox"/>	<u>4171513</u>	October 1979	Otey et al.	325/32
<input type="checkbox"/>	<u>4172213</u>	October 1979	Barnes et al.	178/22
<input type="checkbox"/>	<u>4175267</u>	November 1979	Tachi	358/4
<input type="checkbox"/>	<u>4178613</u>	December 1979	Takahashi et al.	358/183
<input type="checkbox"/>	<u>4180709</u>	December 1979	Cosgrove et al.	179/2AM
<input type="checkbox"/>	<u>4186413</u>	January 1980	Mortimer	358/146
<input type="checkbox"/>	<u>4196310</u>	April 1980	Forman et al.	178/22
<input type="checkbox"/>	<u>4199656</u>	April 1980	Saylor	178/66.1
<input type="checkbox"/>	<u>4199781</u>	April 1980	Doumit	358/83
<input type="checkbox"/>	<u>4199809</u>	April 1980	Pasahow et al.	364/200
<input type="checkbox"/>	<u>4200770</u>	April 1980	Hellman et al.	178/22
<input type="checkbox"/>	<u>4200913</u>	April 1980	Kuhar et al.	364/900
<input type="checkbox"/>	<u>4203130</u>	May 1980	Doumit et al.	358/1

<input type="checkbox"/>	<u>4205343</u>	July 1980	Barrett	358/147
<input type="checkbox"/>	<u>4207524</u>	June 1980	Purchase	375/22
<input type="checkbox"/>	<u>4213124</u>	July 1980	Barda et al.	340/706
<input type="checkbox"/>	<u>4214273</u>	July 1980	Brown	358/188
<input type="checkbox"/>	<u>4215366</u>	July 1980	Davidson	358/124
<input type="checkbox"/>	<u>4215370</u>	July 1980	Kirk, Jr.	358/146
<input type="checkbox"/>	<u>4216497</u>	August 1980	Ishman et al.	358/84
<input type="checkbox"/>	<u>4218698</u>	August 1980	Bart et al.	358/22
<input type="checkbox"/>	<u>4222068</u>	September 1980	Thompson	388/120
<input type="checkbox"/>	<u>4225884</u>	September 1980	Block et al.	348/3
<input type="checkbox"/>	<u>4225967</u>	September 1980	Miwa et al.	455/68
<input type="checkbox"/>	<u>4228543</u>	October 1980	Jackson	455/181
<input type="checkbox"/>	<u>4230990</u>	October 1980	Lert, Jr. et al.	348/4
<input type="checkbox"/>	<u>4231031</u>	October 1980	Crowther et al.	340/695
<input type="checkbox"/>	<u>4232193</u>	November 1980	Gerard	179/1.5R
<input type="checkbox"/>	<u>4233628</u>	November 1980	Ciciora	358/147
<input type="checkbox"/>	<u>4236217</u>	November 1980	Kennedy	364/483
<input type="checkbox"/>	<u>4237484</u>	December 1980	Brown et al.	358/142
<input type="checkbox"/>	<u>4243984</u>	January 1981	Ackley et al.	340/703
<input type="checkbox"/>	<u>4245245</u>	January 1981	Matsumoto et al.	348/7
<input type="checkbox"/>	<u>4245246</u>	January 1981	Cheung	358/124
<input type="checkbox"/>	<u>4245252</u>	January 1981	Nagumo	358/213
<input type="checkbox"/>	<u>4246611</u>	January 1981	Davies	358/194
<input type="checkbox"/>	<u>4247106</u>	January 1981	Jeffers et al.	273/85G
<input type="checkbox"/>	<u>4247947</u>	January 1981	Miyamoto	455/38
<input type="checkbox"/>	<u>4249211</u>	February 1981	Baba et al.	358/183
<input type="checkbox"/>	<u>4250521</u>	February 1981	Wright	358/8
<input type="checkbox"/>	<u>4250524</u>	February 1981	Tomizawa	358/122
<input type="checkbox"/>	<u>4251691</u>	February 1981	Kakihara et al.	348/14
<input type="checkbox"/>	<u>4253114</u>	February 1981	Tang et al.	358/114
<input type="checkbox"/>	<u>4253157</u>	February 1981	Kirschner et al.	364/900
<input type="checkbox"/>	<u>4258386</u>	March 1981	Cheung	358/84
<input type="checkbox"/>	<u>4261006</u>	April 1981	Weintraub et al.	358/3
<input type="checkbox"/>	<u>4262329</u>	April 1981	Bright et al.	364/200
<input type="checkbox"/>	<u>4264924</u>	April 1981	Freeman	358/86
<input type="checkbox"/>	<u>4264925</u>	April 1981	Freeman et al.	358/86
<input type="checkbox"/>	<u>4266243</u>	May 1981	Shutterly	358/121
<input type="checkbox"/>	<u>4270145</u>	May 1981	Farina	358/188

<input type="checkbox"/>	<u>4272784</u>	June 1981	Saito et al.	358/127
<input type="checkbox"/>	<u>4273962</u>	June 1981	Wolfe	179/7.1R
<input type="checkbox"/>	<u>4275411</u>	June 1981	Lippel	358/13
<input type="checkbox"/>	<u>4278973</u>	July 1981	Hughes et al.	340/721
<input type="checkbox"/>	<u>4278993</u>	July 1981	Suzuki	358/22
<input type="checkbox"/>	<u>4283602</u>	August 1981	Adams et al.	179/1.5R
<input type="checkbox"/>	<u>4284976</u>	August 1981	Gable et al.	340/147
<input type="checkbox"/>	<u>4286281</u>	August 1981	Suzuki	358/4
<input type="checkbox"/>	<u>4287592</u>	September 1981	Paulish et al.	370/88
<input type="checkbox"/>	<u>4288809</u>	September 1981	Yabe	358/12
<input type="checkbox"/>	<u>4290062</u>	September 1981	Marti et al.	340/721
<input type="checkbox"/>	<u>4290141</u>	September 1981	Anderson et al.	455/2
<input type="checkbox"/>	<u>4290142</u>	September 1981	Schnee et al.	455/3
<input type="checkbox"/>	<u>4292650</u>	September 1981	Henderickson	358/173
<input type="checkbox"/>	<u>4295155</u>	October 1981	Jarger et al.	358/12
<input type="checkbox"/>	<u>4295223</u>	October 1981	Shutterly	455/72
<input type="checkbox"/>	<u>4301542</u>	November 1981	Weintraub et al.	455/353
<input type="checkbox"/>	<u>4302771</u>	November 1981	Gargini	358/86
<input type="checkbox"/>	<u>4303940</u>	December 1981	Ciciora	358/142
<input type="checkbox"/>	<u>4303941</u>	December 1981	Marti et al.	358/147
<input type="checkbox"/>	<u>4304990</u>	December 1981	Atalla	235/380
<input type="checkbox"/>	<u>4305101</u>	December 1981	Yarbrough et al.	358/908
<input type="checkbox"/>	<u>4305131</u>	December 1981	Best	364/521
<input type="checkbox"/>	<u>4306289</u>	December 1981	Lumley	364/200
<input type="checkbox"/>	<u>4306305</u>	December 1981	Doi et al.	371/38
<input type="checkbox"/>	<u>4307446</u>	December 1981	Barton et al.	364/200
<input type="checkbox"/>	<u>4308558</u>	December 1981	Hernandez et al.	358/142
<input type="checkbox"/>	<u>4310854</u>	January 1982	Baer	358/143
<input type="checkbox"/>	<u>4312016</u>	January 1982	Glaab et al.	358/188
<input type="checkbox"/>	<u>4313132</u>	January 1982	Doles et al.	358/114
<input type="checkbox"/>	<u>4314367</u>	February 1982	Bakka et al.	370/60
<input type="checkbox"/>	<u>4315282</u>	February 1982	Schumacher	358/107
<input type="checkbox"/>	<u>4316055</u>	February 1982	Feistel	178/22.06
<input type="checkbox"/>	<u>4316217</u>	February 1982	Rifken	358/86
<input type="checkbox"/>	<u>4316245</u>	February 1982	Luu et al.	364/200
<input type="checkbox"/>	<u>4317215</u>	February 1982	Tabata et al.	348/6
<input type="checkbox"/>	<u>4318047</u>	March 1982	Dawson	328/112
<input type="checkbox"/>	<u>4318125</u>	March 1982	Shutterly	358/121

<input type="checkbox"/>	4319079	March 1982	Best	178/22.09
<input type="checkbox"/>	4320256	March 1982	Freeman	179/6.04
<input type="checkbox"/>	4322745	March 1982	Saeki et al.	358/123
<input type="checkbox"/>	4323921	April 1982	Guillou	358/114
<input type="checkbox"/>	4323922	April 1982	Den Toonder et al.	358/117
<input type="checkbox"/>	4325078	April 1982	Seatom et al.	358/117
<input type="checkbox"/>	4329675	May 1982	Van Hulle	358/86
<input type="checkbox"/>	4329684	May 1982	Monteath et al.	340/707
<input type="checkbox"/>	4329711	May 1982	Cheung	358/114
<input type="checkbox"/>	4331973	May 1982	Eskin et al.	358/84
<input type="checkbox"/>	4331974	May 1982	Cogswell et al.	455/4
<input type="checkbox"/>	4332980	June 1982	Reynolds et al.	179/2A
<input type="checkbox"/>	4333109	June 1982	Ciciora	358/147
<input type="checkbox"/>	4333152	June 1982	Best	364/521
<input type="checkbox"/>	4334242	June 1982	Mangold	358/127
<input type="checkbox"/>	4335402	June 1982	Holmes	358/147
<input type="checkbox"/>	4335426	June 1982	Maxwell et al.	364/200
<input type="checkbox"/>	4336553	June 1982	Den Toonder et al.	358/120
<input type="checkbox"/>	4336559	June 1982	Koyama et al.	360/73
<input type="checkbox"/>	4337480	June 1982	Bourassin et al.	358/93
<input type="checkbox"/>	4337485	June 1982	Chambers	358/147
<input type="checkbox"/>	4338628	July 1982	Payne et al.	358/120
<input type="checkbox"/>	4339798	July 1982	Hedges et al.	364/412
<input type="checkbox"/>	4340903	July 1982	Tamura	358/10
<input type="checkbox"/>	4340906	July 1982	Den Tooder et al.	358/124
<input type="checkbox"/>	4341925	July 1982	Frosch et al.	178/22.17
<input type="checkbox"/>	4343042	August 1982	Schrock et al.	455/5
<input type="checkbox"/>	4344090	August 1982	Belisomi et al.	358/183
<input type="checkbox"/>	4347498	August 1982	Lee et al.	340/825.02
<input type="checkbox"/>	4347532	August 1982	Korver	358/183
<input type="checkbox"/>	4347618	August 1982	Kavouras et al.	375/37
<input type="checkbox"/>	4348696	September 1982	Bejer	358/188
<input type="checkbox"/>	4351028	September 1982	Peddie et al.	364/483
<input type="checkbox"/>	4352011	September 1982	Guillou	235/375
<input type="checkbox"/>	4353088	October 1982	Den Toonder et al.	358/120
<input type="checkbox"/>	4354201	October 1982	Sechet et al.	358/122
<input type="checkbox"/>	4355372	October 1982	Johnson et al.	364/900
<input type="checkbox"/>	4355415	October 1982	George et al.	455/185

<input type="checkbox"/>	<u>4358672</u>	November 1982	Hyatt et al.	235/380
<input type="checkbox"/>	<u>4360827</u>	November 1982	Braun	358/85
<input type="checkbox"/>	<u>4360881</u>	November 1982	Martinson	364/493
<input type="checkbox"/>	<u>4361730</u>	November 1982	Barber et al.	179/5R
<input type="checkbox"/>	<u>4361848</u>	November 1982	Poignet et al.	358/1
<input type="checkbox"/>	<u>4361851</u>	November 1982	Asip et al.	358/84
<input type="checkbox"/>	<u>4361877</u>	November 1982	Dyer et al.	364/900
<input type="checkbox"/>	<u>4361903</u>	November 1982	Ohta	455/2
<input type="checkbox"/>	<u>4364081</u>	December 1982	Hashimoto et al.	358/13
<input type="checkbox"/>	<u>4365110</u>	December 1982	Lee et al.	178/22.1
<input type="checkbox"/>	<u>4365267</u>	December 1982	Tsuda	358/84
<input type="checkbox"/>	<u>4367488</u>	January 1983	Leventer et al.	348/467
<input type="checkbox"/>	<u>4367548</u>	January 1983	Cotten, Jr. et al.	370/3
<input type="checkbox"/>	<u>4367557</u>	January 1983	Stern et al.	455/4
<input type="checkbox"/>	<u>4368483</u>	January 1983	Liu	348/617
<input type="checkbox"/>	<u>4374395</u>	February 1983	Herrmann et al.	358/22
<input type="checkbox"/>	<u>4375579</u>	March 1983	Davida et al.	127/822.1
<input type="checkbox"/>	<u>4375651</u>	March 1983	Templin et al.	358/191.1
<input type="checkbox"/>	<u>4377870</u>	March 1983	Anderson et al.	455/2
<input type="checkbox"/>	<u>4378470</u>	March 1983	Murto et al.	179/2C
<input type="checkbox"/>	<u>4379205</u>	April 1983	Wynar	178/22.1
<input type="checkbox"/>	<u>4380027</u>	April 1983	Leventer et al.	348/467
<input type="checkbox"/>	<u>4381522</u>	April 1983	Lambert	348/7
<input type="checkbox"/>	<u>4382256</u>	May 1983	Nagata	340/825.44
<input type="checkbox"/>	<u>4383257</u>	May 1983	Giallanza et al.	340/825.47
<input type="checkbox"/>	<u>4385384</u>	May 1983	Rosbury et al.	371/22
<input type="checkbox"/>	<u>4386436</u>	May 1983	Kocher et al.	455/151
<input type="checkbox"/>	<u>4388639</u>	June 1983	Cox et al.	358/27
<input type="checkbox"/>	<u>4388643</u>	June 1983	Aminetzah	358/123
<input type="checkbox"/>	<u>4388645</u>	June 1983	Cox et al.	358/86
<input type="checkbox"/>	<u>4389671</u>	June 1983	Posner et al.	358/124
<input type="checkbox"/>	<u>4390898</u>	June 1983	Bond et al.	358/119
<input type="checkbox"/>	<u>4390901</u>	June 1983	Keiser	358/147
<input type="checkbox"/>	<u>4390904</u>	June 1983	Johnston et al.	358/335
<input type="checkbox"/>	<u>4392135</u>	July 1983	Ohyagi	340/825.44
<input type="checkbox"/>	<u>4393277</u>	July 1983	Besen et al.	179/2A
<input type="checkbox"/>	<u>4393376</u>	July 1983	Thomas	340/717
<input type="checkbox"/>	<u>4393404</u>	July 1983	Cox et al	358/147

<input type="checkbox"/>	<u>4394687</u>	July 1983	Hutt et al.	358/147
<input type="checkbox"/>	<u>4394691</u>	July 1983	Amano et al.	358/194.1
<input type="checkbox"/>	<u>4394762</u>	July 1983	Nabeshima	371/38
<input type="checkbox"/>	<u>4395757</u>	July 1983	Bienvenu et al.	364/200
<input type="checkbox"/>	<u>4396947</u>	August 1983	Cheung	358/124
<input type="checkbox"/>	<u>4398216</u>	August 1983	Field et al.	358/121
<input type="checkbox"/>	<u>4400587</u>	August 1983	Taylor et al.	179/27D
<input type="checkbox"/>	<u>4400717</u>	August 1983	Southworth et al.	358/13
<input type="checkbox"/>	<u>4402009</u>	August 1983	Rathjens	348/169
<input type="checkbox"/>	<u>4404589</u>	September 1983	Wright, Jr.	358/86
<input type="checkbox"/>	<u>4405942</u>	September 1983	Block et al.	358/119
<input type="checkbox"/>	<u>4408345</u>	October 1983	Yashiro et al.	455/3
<input type="checkbox"/>	<u>4410917</u>	October 1983	Newdell et al.	360/15
<input type="checkbox"/>	<u>4411017</u>	October 1983	Talbot	345/52.6
<input type="checkbox"/>	<u>4413281</u>	November 1983	Thonnart	358/147
<input type="checkbox"/>	<u>4413339</u>	November 1983	Riggle et al.	371/38
<input type="checkbox"/>	<u>4414621</u>	November 1983	Bown et al.	364/200
<input type="checkbox"/>	<u>4415771</u>	November 1983	Martinez	455/105
<input type="checkbox"/>	<u>4418425</u>	November 1983	Fennel et al.	455/27
<input type="checkbox"/>	<u>4420656</u>	December 1983	Freeman	179/6.04
<input type="checkbox"/>	<u>4420769</u>	December 1983	Novak	358/139
<input type="checkbox"/>	<u>4422093</u>	December 1983	Pargée	358/12
<input type="checkbox"/>	<u>4422105</u>	December 1983	Rodesch et al.	358/903
<input type="checkbox"/>	<u>4422486</u>	December 1983	Maret	144/117R
<input type="checkbox"/>	<u>4424532</u>	January 1984	Den Toonder et al.	358/120
<input type="checkbox"/>	<u>4424533</u>	January 1984	Rzeszewski	358/167
<input type="checkbox"/>	<u>4425578</u>	January 1984	Haselwood et al.	358/84
<input type="checkbox"/>	<u>4425579</u>	January 1984	Merrell	358/86
<input type="checkbox"/>	<u>4425581</u>	January 1984	Scweppe et al.	358/148
<input type="checkbox"/>	<u>4425664</u>	January 1984	Sherman et al.	375/8
<input type="checkbox"/>	<u>4427968</u>	January 1984	York	340/310
<input type="checkbox"/>	<u>4429385</u>	January 1984	Cichelli et al.	370/92
<input type="checkbox"/>	<u>4430669</u>	February 1984	Cheung	358/122
<input type="checkbox"/>	<u>4430731</u>	February 1984	Gimple et al.	370/30
<input type="checkbox"/>	<u>4433207</u>	February 1984	Best	178/22.09
<input type="checkbox"/>	<u>4433379</u>	February 1984	Schenk et al.	364/200
<input type="checkbox"/>	<u>4434323</u>	February 1984	Levine et al.	178/22.17
<input type="checkbox"/>	<u>4434436</u>	February 1984	Kleykamp et al.	358/118

<input type="checkbox"/>	4434438	January 1984	Rzeszewski	358/167
<input type="checkbox"/>	4434464	February 1984	Suzuki et al.	364/200
<input type="checkbox"/>	4439761	March 1984	Fleming et al.	348/468
<input type="checkbox"/>	4439785	March 1984	Leonard	358/120
<input type="checkbox"/>	4443660	April 1984	DeLong	178/22.04
<input type="checkbox"/>	4446519	May 1984	Thomas	364/200
<input type="checkbox"/>	4449114	May 1984	Fascenda et al.	340/988
<input type="checkbox"/>	4449145	May 1984	Ciciora	358/147
<input type="checkbox"/>	4449247	May 1984	Waschka, Jr.	455/9
<input type="checkbox"/>	4450477	May 1984	Lovett	348/7
<input type="checkbox"/>	4450481	May 1984	Dickinson	358/114
<input type="checkbox"/>	4450531	May 1984	Kenyon et al.	364/604
<input type="checkbox"/>	4451701	May 1984	Bending	179/2TV
<input type="checkbox"/>	4454538	June 1984	Toriumi	358/86
<input type="checkbox"/>	4455570	June 1984	Saeki et al.	358/86
<input type="checkbox"/>	4464679	August 1984	Wargo	348/510
<input type="checkbox"/>	4467139	August 1984	Mollier	178/22.08
<input type="checkbox"/>	4467356	August 1984	McCoy	358/146
<input type="checkbox"/>	4468701	August 1984	Burcher et al.	358/181
<input type="checkbox"/>	4471163	September 1984	Donald et al.	178/22.08
<input type="checkbox"/>	4471164	September 1984	Henry	178/22.11
<input type="checkbox"/>	4471352	September 1984	Soulliard et al.	340/825.44
<input type="checkbox"/>	4473068	September 1984	Oh	128/92D
<input type="checkbox"/>	4475123	October 1984	Dumbauld et al.	358/114
<input type="checkbox"/>	4476535	October 1984	Loshing et al.	364/480
<input type="checkbox"/>	4484218	November 1984	Boland et al.	358/86
<input type="checkbox"/>	4484328	November 1984	Schlaflly	370/85
<input type="checkbox"/>	4488179	December 1984	Kruger et al.	358/181
<input type="checkbox"/>	4489220	December 1984	Oliver	179/2AM
<input type="checkbox"/>	4489316	December 1984	MacQuivey	340/700
<input type="checkbox"/>	4491983	January 1985	Pinnow et al.	455/612
<input type="checkbox"/>	4492820	January 1985	Kennard et al.	179/5P
<input type="checkbox"/>	4494142	January 1985	Mistry	358/118
<input type="checkbox"/>	4496975	January 1985	Noirel	358/147
<input type="checkbox"/>	4504831	March 1985	Jahr et al.	340/870.03
<input type="checkbox"/>	4506387	March 1985	Walter	455/6.12
<input type="checkbox"/>	4510623	April 1985	Bonneau et al.	455/181
<input type="checkbox"/>	4513174	April 1985	Herman	178/22.08

<input type="checkbox"/>	<u>4518989</u>	1985	Yabiki et al.	348/12
<input type="checkbox"/>	<u>4528588</u>	July 1985	Lofberg	358/122
<input type="checkbox"/>	<u>4528589</u>	July 1985	Block et al.	358/122
<input type="checkbox"/>	<u>4531020</u>	July 1985	Wechselberger et al.	178/22.08
<input type="checkbox"/>	<u>4531021</u>	July 1985	Bluestein et al.	178/22.08
<input type="checkbox"/>	<u>4536791</u>	August 1985	Campbell et al.	358/122
<input type="checkbox"/>	<u>4538176</u>	August 1985	Nakajima et al.	358/86
<input type="checkbox"/>	<u>4540849</u>	September 1985	Oliver	179/2AM
<input type="checkbox"/>	<u>4543616</u>	September 1985	Brooks	358/335
<input type="checkbox"/>	<u>4547804</u>	October 1985	Greenberg	358/142
<input type="checkbox"/>	<u>4554584</u>	November 1985	Elam et al.	358/165
<input type="checkbox"/>	<u>4558464</u>	December 1985	O'Brien, Jr.	455/4
<input type="checkbox"/>	<u>4563702</u>	January 1986	Heller et al.	358/119
<input type="checkbox"/>	<u>4566030</u>	January 1986	Nickerson et al.	379/82
<input type="checkbox"/>	<u>4570930</u>	February 1986	Matheson	273/1E
<input type="checkbox"/>	<u>4578536</u>	March 1986	Oliver et al.	179/2AM
<input type="checkbox"/>	<u>4578718</u>	March 1986	Parker et al.	360/10.3
<input type="checkbox"/>	<u>4592546</u>	June 1986	Fascenda et al.	273/1E
<input type="checkbox"/>	<u>4593353</u>	June 1986	Pickholtz	364/200
<input type="checkbox"/>	<u>4594609</u>	June 1986	Romao et al.	358/119
<input type="checkbox"/>	<u>4595952</u>	June 1986	Filliman	358/47
<input type="checkbox"/>	<u>4598288</u>	July 1986	Yarbrough et al.	340/825.34
<input type="checkbox"/>	<u>4599644</u>	July 1986	Fischer	348/10
<input type="checkbox"/>	<u>4600918</u>	July 1986	Belisomi et al.	340/711
<input type="checkbox"/>	<u>4600921</u>	July 1986	Thomas	340/825.31
<input type="checkbox"/>	<u>4605964</u>	August 1986	Chard	358/147
<input type="checkbox"/>	<u>4611227</u>	September 1986	Brockhurst et al.	358/147
<input type="checkbox"/>	<u>4613901</u>	September 1986	Gilhousen et al.	358/122
<input type="checkbox"/>	<u>4621259</u>	November 1986	Schepers et al.	340/707
<input type="checkbox"/>	<u>4621285</u>	November 1986	Schilling et al.	358/120
<input type="checkbox"/>	<u>4623920</u>	November 1986	Dufresne et al.	358/122
<input type="checkbox"/>	<u>4626892</u>	December 1986	Nortrup et al.	358/21R
<input type="checkbox"/>	<u>4631585</u>	December 1986	Wine	348/510
<input type="checkbox"/>	<u>4633297</u>	December 1986	Skeros et al.	358/22
<input type="checkbox"/>	<u>4636858</u>	January 1987	Hague et al.	358/147
<input type="checkbox"/>	<u>4638357</u>	January 1987	Heimbach	358/121
<input type="checkbox"/>	<u>4639779</u>	January 1987	Greenberg	358/142
<input type="checkbox"/>	<u>4646145</u>	February 1987	Percy et al.	358/84

<input type="checkbox"/>	<u>4649533</u>	March 1987	Chorley et al.	370/58
<input type="checkbox"/>	<u>4658290</u>	April 1987	McKenna	358/84
<input type="checkbox"/>	<u>4677685</u>	June 1987	Kurisu	455/4
<input type="checkbox"/>	<u>4684980</u>	August 1987	Rast et al.	455/3.2
<input type="checkbox"/>	<u>4689661</u>	August 1987	Barbieri et al.	358/12
<input type="checkbox"/>	<u>4694490</u>	September 1987	Harvey et al.	380/20
<input type="checkbox"/>	<u>4704725</u>	November 1987	Harvey et al.	380/48
<input type="checkbox"/>	<u>4706121</u>	November 1987	Young	358/142
<input type="checkbox"/>	<u>4710919</u>	December 1987	Oliver et al.	370/96
<input type="checkbox"/>	<u>4710955</u>	December 1987	Kaufman	379/82
<input type="checkbox"/>	<u>4718107</u>	January 1988	Hayes	455/4
<input type="checkbox"/>	<u>4723302</u>	February 1988	Fulmer et al.	455/2
<input type="checkbox"/>	<u>4734764</u>	March 1988	Pocock et al.	358/86
<input type="checkbox"/>	<u>4736422</u>	April 1988	Mason	380/120
<input type="checkbox"/>	<u>4744080</u>	May 1988	Brennand et al.	280/21
<input type="checkbox"/>	<u>4745468</u>	May 1988	Von Kohorn	358/84
<input type="checkbox"/>	<u>4751732</u>	June 1988	Kamitake	380/20
<input type="checkbox"/>	<u>4752834</u>	June 1988	Koombes	358/335
<input type="checkbox"/>	<u>4754326</u>	June 1988	Kram et al.	364/900
<input type="checkbox"/>	<u>4768144</u>	August 1988	Winter et al.	364/200
<input type="checkbox"/>	<u>4768229</u>	August 1988	Benjamin et al.	380/20
<input type="checkbox"/>	<u>4782387</u>	November 1988	Sabri et al.	348/424
<input type="checkbox"/>	<u>4782401</u>	November 1988	Faerber et al.	358/335
<input type="checkbox"/>	<u>4785420</u>	November 1988	Little	364/513.5
<input type="checkbox"/>	<u>4796181</u>	January 1989	Wiedmer	364/406
<input type="checkbox"/>	<u>4803725</u>	February 1989	Horne et al.	380/44
<input type="checkbox"/>	<u>4805020</u>	February 1989	Greenberg	358/147
<input type="checkbox"/>	<u>4807031</u>	February 1989	Broughton et al.	358/142
<input type="checkbox"/>	<u>4809274</u>	February 1989	Walker et al.	371/37
<input type="checkbox"/>	<u>4816904</u>	March 1989	McKenna et al.	358/84
<input type="checkbox"/>	<u>4829569</u>	May 1989	Seth-Smith et al.	380/10
<input type="checkbox"/>	<u>4837799</u>	June 1989	Prohs et al.	379/224
<input type="checkbox"/>	<u>4839917</u>	June 1989	Oliver	379/45
<input type="checkbox"/>	<u>4841386</u>	June 1989	Schiering	360/69
<input type="checkbox"/>	<u>4843482</u>	June 1989	Hegendorfer	358/335
<input type="checkbox"/>	<u>4849817</u>	July 1989	Short	358/142
<input type="checkbox"/>	<u>4855842</u>	August 1989	Hayes et al.	358/342
<input type="checkbox"/>	<u>4857999</u>	August 1989	Welsh	358/84

<input type="checkbox"/>	<u>4860379</u>	August 1989	Schoeneberger al.	348/12
<input type="checkbox"/>	<u>4862268</u>	August 1989	Campbell et al.	348/467
<input type="checkbox"/>	<u>4864691</u>	September 1989	Bennett et al.	380/21
<input type="checkbox"/>	<u>4868866</u>	September 1989	Williams	348/6
<input type="checkbox"/>	<u>4876736</u>	October 1989	Kiewit	455/2
<input type="checkbox"/>	<u>4879611</u>	November 1989	Fukui et al.	360/69
<input type="checkbox"/>	<u>4885579</u>	December 1989	Sandbank	340/825.72
<input type="checkbox"/>	<u>4885632</u>	December 1989	Mabey et al.	358/84
<input type="checkbox"/>	<u>4888638</u>	December 1989	Bohn	358/84
<input type="checkbox"/>	<u>4888796</u>	December 1989	Olivo, Jr.	379/101
<input type="checkbox"/>	<u>4890320</u>	December 1989	Monslow et al.	380/10
<input type="checkbox"/>	<u>4890321</u>	December 1989	Seth-Smith et al.	380/20
<input type="checkbox"/>	<u>4891703</u>	January 1990	Noudan	358/142
<input type="checkbox"/>	<u>4897867</u>	January 1990	Foster et al.	379/94
<input type="checkbox"/>	<u>4907260</u>	March 1990	Prohs et al.	379/224
<input type="checkbox"/>	<u>4907273</u>	March 1990	Wiedemer	380/16
<input type="checkbox"/>	<u>4908707</u>	March 1990	Kinghorn	358/147
<input type="checkbox"/>	<u>4908713</u>	March 1990	Levine	358/335
<input type="checkbox"/>	<u>4908834</u>	March 1990	Wiedemer	380/5
<input type="checkbox"/>	<u>4908845</u>	March 1990	Little	379/51
<input type="checkbox"/>	<u>4912552</u>	March 1990	Allison, III et al.	358/84
<input type="checkbox"/>	<u>4914517</u>	April 1990	Duffield	358/191.1
<input type="checkbox"/>	<u>4930158</u>	May 1990	Vogel	380/5
<input type="checkbox"/>	<u>4931871</u>	June 1990	Kramer	358/142
<input type="checkbox"/>	<u>4931877</u>	June 1990	Gebhardt et al.	358/335
<input type="checkbox"/>	<u>4935870</u>	June 1990	Bork, Jr. et al.	364/200
<input type="checkbox"/>	<u>4939773</u>	July 1990	Katz	379/204
<input type="checkbox"/>	<u>4943963</u>	July 1990	Waechter et al.	370/94.1
<input type="checkbox"/>	<u>4945412</u>	July 1990	Kramer	358/142
<input type="checkbox"/>	<u>4945563</u>	July 1990	Horton et al.	380/5
<input type="checkbox"/>	<u>4947302</u>	August 1990	Callahan	362/233
<input type="checkbox"/>	<u>4949187</u>	August 1990	Cohen	358/335
<input type="checkbox"/>	<u>4954899</u>	September 1990	Tanabe et al.	358/191.1
<input type="checkbox"/>	<u>4959720</u>	September 1990	Duffield et al.	358/191.1
<input type="checkbox"/>	<u>4963994</u>	October 1990	Levine	358/335
<input type="checkbox"/>	<u>4963995</u>	October 1990	Lang	358/335
<input type="checkbox"/>	<u>4965825</u>	October 1990	Harvey et al.	380/9
<input type="checkbox"/>	<u>4967273</u>	October 1990	Greenberg	358/142

<input type="checkbox"/>	4975951	December 1990	Bennett	380/20
<input type="checkbox"/>	4977455	December 1990	Young	358/142
<input type="checkbox"/>	4982430	January 1991	Frezza et al.	380/50
<input type="checkbox"/>	4989104	January 1991	Schulein et al.	360/72.1
<input type="checkbox"/>	4991011	February 1991	Johnson et al.	358/141
<input type="checkbox"/>	4991025	February 1991	Eigeldinger	358/310
<input type="checkbox"/>	4993003	February 1991	Fechner et al.	368/47
<input type="checkbox"/>	4993066	February 1991	Jenkins	380/16
<input type="checkbox"/>	4994908	February 1991	Kuban et al.	358/86
<input type="checkbox"/>	4995078	February 1991	Monslow et al.	380/10
<input type="checkbox"/>	5001554	March 1991	Johnson et al.	358/86
<input type="checkbox"/>	5002491	March 1991	Abrahamson et al.	434/322
<input type="checkbox"/>	5003384	March 1991	Durden et al.	358/84
<input type="checkbox"/>	5003591	March 1991	Kauffman et al.	380/10
<input type="checkbox"/>	5010459	April 1991	Talyor et al.	362/85
<input type="checkbox"/>	5012510	April 1991	Schaubs et al.	379/92
<input type="checkbox"/>	5013038	May 1991	Luxenberg et al.	273/439
<input type="checkbox"/>	5014125	May 1991	Pocock et al.	358/86
<input type="checkbox"/>	5016272	May 1991	Stubbs et al.	380/5
<input type="checkbox"/>	5016273	May 1991	Hoff	380/10
<input type="checkbox"/>	5027400	June 1991	Baji et al.	380/20
<input type="checkbox"/>	5029207	July 1991	Gammie	380/10
<input type="checkbox"/>	5038211	August 1991	Hallenbeck	358/142
<input type="checkbox"/>	5045816	September 1991	Bramhall et al.	332/105
<input type="checkbox"/>	5045947	September 1991	Beery	358/192.1
<input type="checkbox"/>	5047867	September 1991	Strubbe et al.	358/335
<input type="checkbox"/>	5047928	September 1991	Wiedemer	364/406
<input type="checkbox"/>	5055924	October 1991	Skutta	358/84
<input type="checkbox"/>	5057932	October 1991	Lang	358/335
<input type="checkbox"/>	5058160	October 1991	Banker et al.	380/20
<input type="checkbox"/>	5062136	October 1991	Gattis et al.	380/18
<input type="checkbox"/>	5067149	November 1991	Schneid et al.	379/224
<input type="checkbox"/>	5072418	December 1991	Boutaud et al.	364/715.06
<input type="checkbox"/>	5075771	December 1991	Hashimoto	358/84
<input type="checkbox"/>	5083800	January 1992	Lockton	273/439
<input type="checkbox"/>	5093718	March 1992	Hoarty et al.	358/84
<input type="checkbox"/>	5093921	March 1992	Bevins, Jr.	455/4
<input type="checkbox"/>	5101267	March 1992	Morales-Garza	358/84

<input type="checkbox"/>	5108115	April 1992	Berman et al.	273/439
<input type="checkbox"/>	5109414	April 1992	Fechner et al.	368/47
<input type="checkbox"/>	5111401	May 1992	Everett, Jr. et al.	364/424.02
<input type="checkbox"/>	5113496	May 1992	McCalley et al.	395/200
<input type="checkbox"/>	5120076	June 1992	Luxemberg et al.	273/439
<input type="checkbox"/>	5124942	June 1992	Nielsen et al.	395/100
<input type="checkbox"/>	5132992	July 1992	Yurt et al.	375/122
<input type="checkbox"/>	5133079	July 1992	Ballantyne et al.	455/4.1
<input type="checkbox"/>	5140419	August 1992	Galumbeck et al.	358/142
<input type="checkbox"/>	5142677	August 1992	Ehlig et al.	395/650
<input type="checkbox"/>	5142690	August 1992	McMullan, Jr. et al.	455/6.1
<input type="checkbox"/>	5144664	September 1992	Esserman et al.	380/20
<input type="checkbox"/>	5148482	September 1992	Bocci et al.	380/48
<input type="checkbox"/>	5151789	September 1992	Young	358/194.1
<input type="checkbox"/>	5155590	October 1992	Beyers, II et al.	358/86
<input type="checkbox"/>	5155591	October 1992	Wachob	358/86
<input type="checkbox"/>	5155812	October 1992	Ehlig et al.	395/275
<input type="checkbox"/>	5157716	October 1992	Naddor et al.	379/92
<input type="checkbox"/>	5164839	November 1992	Lang	358/335
<input type="checkbox"/>	5172413	December 1992	Bradley et al.	380/20
<input type="checkbox"/>	5181113	January 1993	Chang	358/142
<input type="checkbox"/>	5185796	February 1993	Wilson	380/21
<input type="checkbox"/>	5187797	February 1993	Nielsen et al.	395/800
<input type="checkbox"/>	5191410	March 1993	McCalley et al.	358/86
<input type="checkbox"/>	5195092	March 1993	Wilson et al.	370/94.2
<input type="checkbox"/>	5195134	March 1993	Inoue	380/20
<input type="checkbox"/>	5202916	April 1993	Oliver	379/106
<input type="checkbox"/>	5204768	April 1993	Tsakiris et al.	359/148
<input type="checkbox"/>	5208665	May 1993	McCalley et al.	358/86
<input type="checkbox"/>	5212553	May 1993	Maruoka	358/188
<input type="checkbox"/>	5213337	May 1993	Sherman	273/439
<input type="checkbox"/>	5216504	June 1993	Webb et al.	358/139
<input type="checkbox"/>	5220501	June 1993	Lawlor et al.	364/408
<input type="checkbox"/>	5222137	June 1993	Barrett et al.	380/21
<input type="checkbox"/>	5223924	June 1993	Strubbe	358/86
<input type="checkbox"/>	5225902	July 1993	McMullan, Jr.	358/86
<input type="checkbox"/>	5226177	July 1993	Nickerson	455/2
<input type="checkbox"/>	5231493	July 1993	Apitz	358/146

<input type="checkbox"/>	5233654	August 1993	Harvey et al.	380/20
<input type="checkbox"/>	5235415	August 1993	Bonicel et al.	358/84
<input type="checkbox"/>	5235619	August 1993	Beyers, II et al.	375/38
<input type="checkbox"/>	5235634	August 1993	Oliver	379/106
<input type="checkbox"/>	5237417	August 1993	Hayashi et al.	358/183
<input type="checkbox"/>	5237610	August 1993	Gammie et al.	380/10
<input type="checkbox"/>	5239575	August 1993	White et al.	379/107
<input type="checkbox"/>	5247364	September 1993	Banker et al.	358/191.1
<input type="checkbox"/>	5247575	September 1993	Sprague et al.	380/9
<input type="checkbox"/>	5251324	October 1993	McMullan, Jr.	455/2
<input type="checkbox"/>	5251909	October 1993	Reed et al.	273/439
<input type="checkbox"/>	5252077	October 1993	Schott	434/335
<input type="checkbox"/>	5253066	October 1993	Vogel	358/188
<input type="checkbox"/>	5253275	October 1993	Yurt et al.	375/122
<input type="checkbox"/>	5254977	October 1993	MacDonald	345/150
<input type="checkbox"/>	5255086	October 1993	McMullan, Jr. et al.	358/86
<input type="checkbox"/>	5260778	November 1993	Kauffman et al.	358/86
<input type="checkbox"/>	5266944	November 1993	Carroll et al.	340/825.36
<input type="checkbox"/>	5267305	November 1993	Prohs et al.	379/233
<input type="checkbox"/>	5267865	December 1993	Lee et al.	434/350
<input type="checkbox"/>	5270809	December 1993	Gammie et al.	358/84
<input type="checkbox"/>	5276678	January 1994	Hendrickson et al.	370/62
<input type="checkbox"/>	5283639	February 1994	Esch et al.	348/6
<input type="checkbox"/>	5283819	February 1994	Glick et al.	379/90
<input type="checkbox"/>	5291554	March 1994	Morales	380/5
<input type="checkbox"/>	5293357	March 1994	Hallenbeck	348/734
<input type="checkbox"/>	5294229	March 1994	Hartzell et al.	434/336
<input type="checkbox"/>	5301233	April 1994	Coutrot et al.	380/23
<input type="checkbox"/>	5303042	April 1994	Lewis et al.	348/14
<input type="checkbox"/>	5307173	April 1994	Yuen et al.	358/335
<input type="checkbox"/>	5313618	May 1994	Pawloski	395/500
<input type="checkbox"/>	5313648	May 1994	Ehlig et al.	395/800
<input type="checkbox"/>	5319789	June 1994	Ehlig et al.	395/800
<input type="checkbox"/>	5319792	June 1994	Ehlig et al.	395/800
<input type="checkbox"/>	5321750	June 1994	Nadan	380/20
<input type="checkbox"/>	5327421	July 1994	Hiller et al.	370/60.1
<input type="checkbox"/>	5327554	July 1994	Palazzi, III et al.	395/600
<input type="checkbox"/>	5335276	August 1994	Thompson et al.	380/21

<input type="checkbox"/>	5335277	August 1994	Harvey et al.	380/20
<input type="checkbox"/>	5343239	August 1994	Lappington et al.	348/12
<input type="checkbox"/>	5343300	August 1994	Henning	348/478
<input type="checkbox"/>	5345445	September 1994	Hiller et al.	370/60.1
<input type="checkbox"/>	5345446	September 1994	Hiller et al.	370/60.1
<input type="checkbox"/>	5345501	September 1994	Shelton	379/89
<input type="checkbox"/>	5349687	September 1994	Ehlig et al.	395/800
<input type="checkbox"/>	5351130	September 1994	Dugan et al.	358/725
<input type="checkbox"/>	5351970	October 1994	Fioretti	273/439
<input type="checkbox"/>	5353121	October 1994	Young et al.	348/563
<input type="checkbox"/>	5367330	November 1994	Haave et al.	348/7
<input type="checkbox"/>	5374951	December 1994	Welsh	348/4
<input type="checkbox"/>	5414773	May 1995	Handelman	380/49
<input type="checkbox"/>	5420647	May 1995	Levine	348/734
<input type="checkbox"/>	5420923	May 1995	Beyers, II et al.	380/20
<input type="checkbox"/>	5430552	July 1995	O'Callaghan	358/335
<input type="checkbox"/>	5432558	July 1995	Kim	348/460
<input type="checkbox"/>	5459789	October 1995	Tamer et al.	380/20
<input type="checkbox"/>	5465385	November 1995	Ohga et al.	455/6.1
<input type="checkbox"/>	5475754	December 1995	Bridgewater et al.	380/20
<input type="checkbox"/>	5485509	January 1996	Oliver	379/106
<input type="checkbox"/>	5488654	January 1996	Oliver	379/106
<input type="checkbox"/>	5532754	July 1996	Young et al.	348/569
<input type="checkbox"/>	5534883	July 1996	Koh	345/31
<input type="checkbox"/>	5535362	July 1996	Ami et al.	395/474
<input type="checkbox"/>	5548338	August 1996	Ellis et al.	348/473
<input type="checkbox"/>	5552833	September 1996	Henmi et al.	348/460

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
1216977	June 1983	CA	358/142
1189612	June 1985	CA	40/1
0 020 242	December 1980	EP	348/460
0 035 456	September 1981	EP	
0 046 108	February 1982	EP	
0 049 184	April 1982	EP	
0 055 167	June 1982	EP	
0 056 649	July 1982	EP	
0 077 712	April 1983	EP	
0 078 185	May 1983	EP	
0187417	July 1986	EP	
0 583 196 A1	February 1994	EP	
80/02901	December 1980	FR	
2496376	June 1982	FR	
2516733	May 1983	FR	
2 058 681	June 1972	DE	
23 38 380	February 1975	DE	
24 53 441	May 1976	DE	
2823175	November 1979	DE	
29 18 846	November 1980	DE	
3020787	December 1981	DE	
3039949	May 1982	DE	
3112249	October 1982	DE	
56-47179	April 1981	JP	
0146587	August 1985	JP	
857862	January 1961	GB	
959274	May 1964	GB	
1066931	April 1967	GB	
1370535	October 1974	GB	
1396981	June 1975	GB	
1515309	June 1978	GB	
1523307	August 1978	GB	
1543502	April 1979	GB	
2904981	August 1979	GB	
1 554 411	October 1979	GB	
1 565 319	April 1980	GB	
2 033 699	May 1980	GB	
2 034 995	June 1980	GB	
1582563	January 1981	GB	
2051527	January 1981	GB	
1584111	February 1981	GB	
2067379	July 1981	GB	
2 081 948	February 1982	GB	
2090504	July 1982	GB	
2103455	February 1983	GB	
WO80/00292	February 1980	WO	
WO8002093	October 1980	WO	
WO 81/02961	October 1981	WO	
WO83/00789	March 1983	WO	
WO89/02682	March 1989	WO	

OTHER PUBLICATIONS

James, A., "Oracle -- Broadcasting the Written Word," Wireless Word, Jul. 1975.

Carne, E. Bryan, "The Wired Household," IEEE Spectrum, Oct. 1979, pp. 61-66.

McKenzie, G.A., "Oracle -- An Information Broadcasting Service Using Data Transmission in the Vertical Interval," Journal of the SMPTE, vol. 83, No. 1, Jan. 1974, pp. 6-10.

Edwardson, S.M., "CEEFAQ: A Proposed New Broadcasting Service," Journal of the SMPTE, Jan. 1974, pp. 14-19.

J. Chiddix, "Automated Videotape Delay of Satellite Transmissions," Satellite Communications Magazine, May 1978 (reprint -- 2 pages).

J. Chiddix, "Tape Speed Errors in Line-Locked Videocassette Machines For CATV Applications," TVC, Nov. 1977 (reprint -- 2 pages).

CRC Electronics, Inc. Product Description, "Model TD-100 -- Time Delay Videotape Controller," 2 pages, undated.

CRC Electronics, Inc., Net Price List -- Mar. 1, 1980 (TD-100 Time Delay Videotape Controller), 1 page.

CRC Electronics, Inc. Product Description, "Model P-1000 Videocassette Programmer," 4 pages, undated.

CRC Electronics, Inc., Net Price List -- Jul. 31, 1981 (P-1000 Video Machine Programmer), 1 page.

Tunmann, E.O. et al. (Tele-Engineering Corp.), "Microprocessor For CATV Systems," Cable 78 -- Technical Papers, National Cable Television Association 27th Annual Convention, New Orleans, LA, Apr. 30-May 3, 1978 (Cable 78), pp. 70-75.

Vega, Richard L. (Telecommunications Systems, Inc.), "From Satellite to Earth Station to Studio To S-T-L To MDS Transmitter To The Home; Pay Television Comes To Anchorage, Alaska," Cable 78, pp.76-80.

Wright, James B. et al. (Rockford Cablevision, Inc.), The Rockford Two-Way Cable Project: Existing and Projected.

Technology, Cable 78, pp. 20-28.

Fannetti, John D. et al. (City of Syracuse), "The Urban Market: Paving the Way for Two-Way Telecommunications," Cable 78, pp. 29-33.

Schnee Rolf M. et al. (Heinrich-Hertz-Institut Berlin (West)), "Technical Aspects of Two-Way CATV Systems in Germany," Cable 78, pp. 34-41.

Dickinson, Robert V.C. (E-Com Corporation), "A Versatile, Low Cost System for Implementing CATV Auxiliary Services," Visions '79 -- Technical Papers, National Cable Television Association 28th Annual Convention, Las Vegas, NV, May 20-23, 1979, (Visions '79), pp. 65-72.

Evans, William E. et al. (Manitoba Telephone System), "An Intercity Coaxial Cable Electronic Highway," Visions '79, pp. 73-79.

Schrock, Clifford B. (C.B. Schrock and Associates, Inc.), "Pay Per View, Security, and Energy Controls Via Cable: The Rippling River Project," Visions '79, pp. 80-85.

Southworth, Glen (Colorado Video, Inc.), "Narrow-Band Video: The UPI 'Newstime' Technology," Visions '79, pp. 86-88.

Daly IV, Raymond E. (Computer Cablevision, Inc.), "Potential Use of Microcomputers -- The Threats to Technical Personnel, Manufacturers And Owners," Visions '79, pp. 124-126.

Grabenstein, James B. (Potomac Valley Television Co., Inc.), "System Design and Operation with 'Basic'," Visions '79 (Appendix B), p. 127.

Amell, Richard L. (Cox Cable Communications, Inc.), "Computer-Aided CATV System Design," Visions '79, pp. 128-133.

Yoshino, Hirokazu et al. (Matsushita Electric Industrial Co., Ltd.), "Multi-Information System Using Fiber Optics," Visions '79, pp. 134-137.

Albright, Thomas G. (Printer Terminal Communications Corporation), "Cable Service: A Data Distribution Link," Visions of the 80's -- Technical Papers, National Cable Television Association 29th Annual Convention, Dallas, TX, May 18-21, 1980 (Visions of the 80's), pp. 30-34.

Blinaeu, Joseph J. (Centre Commun d'Etudes de Telecommunications), "Measuring Methods and Equipments for Data Packet Broadcasting," Visions of the 80's, pp. 35-39.

Katz, Harold W. (Interactive Systems/3M), "Status Report of EIA Broadband Modem Standards," Visions of the 80's, pp. 40-44.

Lopinto, John J. (Home Box Office), "Considerations for Implementing Teletext in the Cable System," Visions of the 80's, pp. 45-48.

O'Brien, Jr., Thomas E. (General Instrument Corporation), "System Design Criteria of Addressable Terminals Optimized for the CATV Operator," Visions of the 80's, pp. 89-91.

Ost, Clarence S. et al. (Electronic Mechanical Products Co.), "High-Security Cable Television Access System," Visions of the 80's, pp. 92-94.

Bacon, John C. (Scientific-Atlanta, Inc.), "Is Scrambling the Only Way?," Visions of

the 80's, pp. 95-100.

Davis, Allen (Home Box Office), "Satellite Security," Visions of the 80's, pp. 99-100.

Mannino, Joseph A. (Applied Date Research, Inc.), "Computer Applications in Cable Television," Visions of the 80's, pp. 116-117.

Beck, Ann et al. (Manhattan Cable TV), "An Automated Programming Control System for Cable TV," Visions of the 80's, pp. 122-127.

Schloss, Robert E. et al. (Omega Communications, Inc.), "Controlling Cable TV Head Ends and Generating Messages by Means of a Micro Computer," Visions of the 80's, pp. 136-138.

Eissler, Charles O. (Oak Communications, Inc.), "Addressable Control," Cable: '81 The Future of Communications -- Technical Papers, National Cable Television Association 30th Annual Convention, Los Angeles, CA, May 29-Jun. 1, 1981 (Cable: '81), pp. 29-33.

Schoeneberger, Carl F. (TOCOM, Inc.), "Addressable Terminal Control Using the Vertical Interval," Cable: '81, pp. 34-40.

Stern, Joseph L. (Stern Telecommunications Corporation), "Addressable Taps," Cable: '81, p. 41.

Brown, Larry C. (Pioneer Communications of America), "Addressable Control -- A Big First Step Toward the Marriage of Computer, Cable, and Consumer," Cable: '81, pp. 42-46.

Grabowski, Ralph E. (VISIONtec), "The Link Between the Computer and Television," Cable: '81, pp. 99-100.

Ciciora, Ph.D., W.S. (Zenith Radio Corporation), "VIRTEXT & VIRDATA: Adventures in Vertical Interval Signaling," Cable: '81, pp. 101-104.

Gilbert, Bill et al. (TEXSCAN Corporation), "Automatic Status Monitoring for a CATV Plant," Cable: '81, pp. 124-128.

Ciciora, Walter et al., "An Introduction to Teletext and Viewdata with Comments on Compatibility," IEEE Transactions on Consumer Electronics, vol. CE-25, No. 3, Jul. 1979 (Consumer Electronics), pp. 235-245.

Tanton, N.E. "UK Teletext -- Evolution and Potential," Consumer Electronics, pp. 246-250.

Bright, Roy D., "Prestel -- The World's First Public Viewdata Service," Consumer Electronics, pp. 251-255.

Bown, H.G. et al., "Telidon: A New Approach to Videotex System Design," Consumer Electronics, pp. 256-268.

Chitnis, A.M. et al., "Videotex Services: Network and Terminal Alternatives," Consumer Electronics, pp. 269-278.

Hedger, J. "Telesoftware: Home Computing Via Broadcast Teletext," Consumer Electronics, pp. 279-287.

Crowther, G.O., "Teletext and Viewdata Systems and Their Possible Extension to Europe and USA," Consumer Electronics, pp. 288-294.

Gross, William S., "Info-Text, Newspaper of the Future," Consumer Electronics, pp. 295-297.

Robinson, Gary et al., "`Touch-Tone` Teletext -- A Combined Teletext-Viewdata System," Consumer Electronics, pp. 298-303.

O'Connor, Robert A., "Teletext Field Tests," Consumer Electronics, pp. 304-310.

Blank, John, "System and Hardware Considerations of Home Terminals With Telephone Computer Access," Consumer Electronics, pp. 311-317.

Plummer, Robert P. et al., "4004 Futures for Teletext and Videotex in the U.S.," Consumer Electronics, pp. 318-326.

Marti, B. et al., "The Antiope Videotex System," Consumer Electronics, pp. 327-333.

Frandon, P. et al., "Antiope LSI," Consumer Electronics, pp. 334-338.

Crowther, G.O., "Teletext and Viewdata Costs As Applied to the U.S. Market," Consumer Electronics, pp. 339-344.

Mothersole, Peter L., "Teletext Signal Generation Equipment and Systems," Consumer Electronics, pp. 345-352.

Harden, Brian, "Teletext/Viewdata LSI," Consumer Electronics, pp. 353-358.

Swanson, E. et al., "An Integrated Serial to Parallel Converter for Teletext Application," Consumer Electronics, pp. 359-361.

Neal, C. Bailey et al., "A Frequency-Domain Interpretation of Echoes and Their Effect on Teletext Data Reception," Consumer Electronics, pp. 362-377.

Goyal, Shri K. et al., "Reception of Teletext Under Multipath Conditions," Consumer Electronics, pp. 378-392.

Prosser, Howard F., "Set Top Adapter Considerations for Teletext," Consumer Electronics, pp. 393-399.

Suzuki, Tadahiko et al., "Television Receiver Design Aspects for Employing Teletext LSI," Consumer Electronics, pp. 400-405.

Baer, Ralph H., "Tele-Briefs-A Novel User-Selectable Real Time News Headline Service

for Cable TV," Consumer Electronics, pp. 406-407.

Sherry, L.A., "Teletext Field Trials in the United Kingdom," Consumer Electronics, pp. 409-423.

Clifford, Colin, "A Universal Controller for Text Display Systems," Consumer Electronics, pp. 424-429.

Barlow, "The Design of an Automatic Machine Assignment System", Journal of the SMPTE, Jul. 1975, vol. 84, pp. 532-537.

Barlow, "The Automation of Large Program Routing Switchers", SMPTE Journal, Jul. 1979, vol. 88, pp. 493-497.

Barlow, "The Computer Control of Multiple-Bus Switchers", SMPTE Journal, Sep. 1976, vol. 85, pp. 720-723.

Barlow, "The Assurance of Reliability", SMPTE Journal, Feb. 1976, vol. 85, pp. 73-75.

Barlow, "Some Features of Company-Controlled Television Station Switchers", Journal of the SMPTE, Mar. 1972, vol. 81, pp. 179-183.

Barlow et al., "A Universal Software for Automatic Switchers", SMPTE Journal, Oct. 1978, vol. 87, pp. 682-683.

Butler, "PCM-Multiplexed Audio in a Large Audio Routing Switcher", SMPTE Journal, Nov. 1976, vol. 85, pp. 875-877.

Dickson et al., "An Automated Network Center", Journal of SMPTE, Jul. 1975, vol. 84, pp. 529-532.

Edmondson et al., "NBC Switching Central", SMPTE Journal, Oct. 1976, vol. 85, pp. 795-805.

Flemming, "NBC Television Central -- An Overview", SMPTE Journal, Oct. 1976, vol. 85, pp. 792-795.

Horowitz, "CBS" New-Technology Station, WBBM-TV, SMPTE Journal, Mar. 1978, vol. 87, pp. 141-146.

Krochmal et al., "Television Transmission Audio Facilities at NBC New York", SMPTE Journal, Oct. 1976, vol. 85, pp. 814-816.

Kubota et al., "The Videomelter", SMPTE Journal, Nov. 1978, vol. 87, pp. 753-754.

Mausler, "Video Transmission Video Facilities at NBC New York", SMPTE Journal, Oct. 1976, vol. 85, pp. 811-814.

Negri, "Hardware Interface Considerations for a Multi-Channel Television Automation System", SMPTE Journal, Nov. 1976, vol. 85, pp. 869-872.

Paganuzzi, "Communication in NBC Television Central", SMPTE Journal, Nov. 1976, vol. 85, pp. 866-869.

Roth et al., "Functional Capabilities of a Computer Control System for Television Switching", SMPTE Journal, Oct. 1976, vol. 85, pp. 806-811.

Rourke, "Television Studio Design -- Signal Routing and Measurement", SMPTE Journal, Sep. 1979, vol. 88, pp. 607-609.

Yanney, "Sixty-Device Remote-Control System for NBC's Television Central Project", SMPTE Journal, Nov. 1976, vol. 85, pp. 873-877.

Young et al., "Developments in Computer-Controlled Television Switches", Journal of the SMPTE, Aug. 1973, vol. 82, pp. 658-661.

Young et al., "The Automation of Small Television Stations", Journal of the SMPTE, Oct. 1971, vol. 80, pp. 806-811.

Zborowski, "Automatic Transmission Systems for Television", SMPTE Journal, Jun. 1978, vol. 87, pp. 383-385.

"Landmark forms cable weather news network," Editor & Publisher, (Aug. 8, 1981) p. 15.

"Broadcast Teletext Specification," published jointly by British Broadcasting Corporation, Independent Broadcasting Authority, British Radio Equipment Manufacturers' Association (Sep. 1976), pp. 1-24.

"Colormax Cable captioning -- 16,000,000 Subs Need It!," Colormax Electronic Corp. (advertisement), 3 pages.

"7609 Sat-A-Dat Decoder/Controller," Group W Satellite Communications (advertisement) 2 pages.

"Teletext Timing Chain Circuit (SAA5020)," (Aug. 1978), p. 109.

Teletext Video Processor (SAA 5030)," Mullard (Dec. 1979), pp. 1-9.

"Video Text Decoder Systems (Signetics)," Phillips IC Product Line Summary (May 1981), pp. 15-16.

"Teletext Acquisition and Control Circuit (SAA5040 Series)," Mullard (Jun. 1980), pp. 1-16.

Asynchronous Data Transmission System Series 2100 VIDATA, Wagener Communications, Inc. (advertisement), 2 pages.

"Zenith VIRTEXTM . . . Vertical Interval Region Text and Graphics," Zenith Radio Corporation (flyer), 7 pages.

Anon, "Television Network Automated By Microcomputer-Controlled Channels," Computer Design, vol. 15, No. 11, (Nov., 1976), pp. 50, 59, 62, 66 and 70.

Kinik, et al., "Network Control System For Television Distribution By Satellite," Journal of The SMPTE, Feb. 1975, vol. 84, No. 2, pp. 63-67.

Chiddix, "Videocassette Banks Automate Delayed Satellite Programming," Aug. 1978, TV Communications, pp. 38-39.

Curnal, et al., "Automating Television Operating Centers," Bell Laboratories Record, Mar. 1978, pp. 65-70.

Hanas et al., "An Addressable Satellite Encryption System For Preventing Signal Piracy", Nov. 1981, pp. 631-635.

National Cable Television Association Executive Seminar Series, Videotex Services, Oct. 1980, pp. 1-155.

Kokado et al., "A Programmable TV Receiver", Feb. 1976, pp. 69-82.

J. Hedger et al., "Telesoftware-Value Added Teletext", Aug. 1980, pp. 555-567.

Marti, B., The Concept Of A Universal "Teletext" Jun. 1979, pp. 1-11.

Article re: America's Talk-Back Television Experiment: Qube.

Article re: "Teletext-Applications in Electronic Publishing".

Article re: A Description of the Broadcast Telidon System.

Article re: EPEOS--Automatic Program Recording System by G. Degoulet.

Article re: Teletext signals transmitted in UK . . .

Article re: New services offered by a packet data broadcasting system.

Article re: Philips TV set indicates station tunign and color settings on screen.

Rzeszeewski, T., "A New Telletex Channel".

Numaguchi, Y. et al., "Compatibility and Transmission Characteristics of Digital Signals Inserted in the Field-Blanking Interval of the Television Signal" (Abstract).

Zimmerman, .R et al., Bildschirmtextesysteme (Abstract).

Pilz, F., "Digital Codierte Uebertragungen von Text und Graphik in den Vertikal-anstastintervallen des Fernsehsignas" (Abstract).

Pilz, F., "Uebertragung Insaitryliches Informationen, Insbesondere von Texten, In Ungenutryten Zeilen der Vertikal-Anstastlueke des Fernsehsignals"(Abstract).

Numaguchi, Y., Wie man Stillstehende Bilder Uebertraegt. Ueberlick Ueber Teletext-, Fernseheinzelbild-Und Faksimile-Uebertrragungsverfahren (Abstract).

Transcript, Videotex, Viewdata, and Teletext: Viewdata '801 Online Conference on Videotex, Viewdata and Teletext, London. Mar. 26k-28, 1980 (Abstract).

Graf, P.H., "Antiope-Uebertragung fuer Breitbandige Videotex-Verteildienste", 1981.

Poubread, J.J., "Cryptage' du Son Pour la Televiser A Peague" 1981 (Abstract).

Graf, P.H., "Das Videotex-System Antiope" 1980 (Abstract).

Vardo, J.C., "Les Emetteurs de Television et la Diffusion de Donnees" 1980 (Abstract).

Noirel, Y., "Constructin D'un Reseau de Diffusion de Donnees Par Paquets" 1979 (Abstract).

Vardo, J.C., "Effet de Distorsions en Diffusion de Donnes. II. Resultats Theoriques" 1979 (Abstract).

Baerfuss, C., "Experiences de Diffusion de Donnees dans un Canal de Television" 1979 (Abstract).

Blinau, J., "Liasons Telex a Support Video Sur Des Circuits de Television Internationaux" 1979 (Abstract).

Dublet, G., "Methodes Utilisees et Principaux Resultats Obtenus Lors D'Une Campagne de esure `Didon` Dans la Refion Centre-est" 1978 (Abstract).

Guinet, Y., "Etude Comparative des Systems de Teletexte en Radio-Diffusion. Quelques Avantages de la Diffusion des Donnees Par Paques Applique an Teletexte" 1977 (Abstract).

Goff, R., "A Review of Teletext" 1978 (Abstract).

Haplinsky, C.H., "The D.sup.* * (2)B A One Logical Wire Bus for Consumer Applications" 1981.

Cazals, A., "cts Techniques du Teletexte Diffuse" 1981 (Abstract).

Sechet, C. et al., "Epees et la Viideomessagerie" 1981 (Abstract).

Cayet, A. "La Peritelevision Face a Son Public" 1981 (Abstract).

"La Telematique au Service Des Entreprises et des Particliers: Les Reseaux -- Les Produits Noveau -- Les Aplication" 1980 (Abstract).

Sechet, C., "Antiope Teletext Captioning" 1980.

Lambert, O. et al., "Antiope and D.R.C.S." 1980.

Broggini, P., "Antiope: La Bonne Information Au Bon Moment" 1980 (Abstract).

Strauch, D., "(Texte Sur Ecran An Nivenn International. Viewdata 80. Premeire Confirence Mendiale Sur Viewdata, Video text at Teletext, a Londres)" 1980.

Strauch, D., "(Las Media De Telecommunication Devant la Rapture. Les Nonvellas Methodes Presentees a L'Exposition International 1979 de Radio (Et Television)) 1979.

Eymery, G., "Le Teletexte Antiope System D'Information of La Demande" 1979-1980 (Abstract).

Brasq, R., "Mid 8 Bits Dans Linite Gestion da Terminal de Videotex Antiope.
 Hughes, JW, "Videotex and Teletext Systems" 1979.
 Marti, B., "Terminologie Des Services de Communication De Texte" 1979 (Abstract).
 Schreber, H., "Antiope et Tietae, La Tele-Informatique Sur L e cran De Votre
 Televiscur" 1978 (Abstract).
 Kulpok, A., "Videotext, Teletext, Bilschimzeitung" 1979 (Abstract).
 Cochard, J.P. et al., "Antiope Prototype da Teletexte De Demain" 1979 (Abstract).
 Messerschmid, U., "Videotext: Ein Nueur Informations dienst in Fernschrund funk"
 1978 (Abstract).
 D'Argoevves, T. et al, "La Chaine Vieo: Magnetoscopes, Videodisques, Andiodisques"
 1979 (Abstract).
 Klinger, R., "Les Systemes de Teletexte Unidirectionals" 1978 (Abstract).
 Guillermin, J., "Dix Annees D'Antomatisation Au Service De la Radiodiffusion" 1977
 (Abstract).
 Brusq, R., "Le Terminal de Teletexte Antiope" 1977 (Abstract).
 Guinet, Y., "Les Systemes des Teletextes Antiope" 1977 (Abstract).
 Schwartz, C. et al., "Specification Preliminarie du Systeme Teletexte Antope" 1977
 (Abstract).
 United States International Trade Commission notice of decision not to review Admin.
 law judges initial dismissal of complaint (case involves certain recombinantly
 Produced Human Growth Hormones).
 U.S.I.T.C.'s order granting Complainants Motion to Desqualify the Law Firm of
 Finnegan, Henderson et al. (Case involves Certain Cardiac Pacemakers and Components
 therof).
 Decision in Ford Motor Company v. Jerome H. Lemelson.
 General Counsel's recommendation to U.S.I.T.C. to refuse a patent-based section 337
 investigation based on a complaint filed not by the owner of the patents in issue,
 but by nonexclusive licensees.
 Portion of ITC's Industry and Trade Summary serial publication.
 Copy of ITC Admin. Judges Order #9: Initial Determination Terminating Investigation
 (Investigation #337-TA-373).
 "LSI Circuits for Teletext and Viewdata--The Lucy Generation" published by Mullard
 Limited, Mullard House (1981).
 2 page article by Nicholas Negroponte in SID 80 Digest titled, "17.4/10:25 a.m.:
 Soft Fonts", pp. 184-185.
 IEEE Consumer Electronics Jul. 1979 issue from Spring Conference titled, "Consumer
 Text Display Systems", pp. 235-429.
 Videotext '81 published by Online Conferences Ltd., for the May 20-22, 1981
 Confernece, pp. 1-470.
 "Teletext and Viewdata Costs as Applied to the U.S. Market" Published by Mullard
 House (1979), pp. 1-8.
 CCETT publication titled, "Didon Diffusion de donnees parpaquets".
 Dalton, C.J., "International Broadcasting Convention" (1968), Sponsors: E.E.A.,
 I.E.E., I.E.E.E., I.E.R.E., etc.
 Shorter, D.E.L., "The Distribution of Television Sound by Pulse-Code Modulation
 Signals Incorporated in the Video Waveform".
 Chorky, J.M., Shorter, D.E.L., "International Broadcasting Convention" (1970), pp.
 166-169.
 "The Implementation of the Sound-in-Sync project for Eurovision (Feb. 1975), pp.
 18-22.
 Maegele, Manfred, "Digital Transmissions of Two Television Sound Channels in
 Horizontal Banking", pp. 68-70.
 Weston, J.D., "Digital TV Transmission for the European Communications Satellite"
 (1974), pp. 318-325.
 Golding, L., "A 15 to 25 Mhz Digital Television System for Transmission of
 Commercial Color Television" (1967), pp. 1-26.
 Huth, Gaylord K., Digital Television System Design Study: Final Report (Nov. 28,
 1976), prepared for NASA Lyndon B. Johnson Space Center.
 Weston, J.D., "Transmission of Television by Pulse Code modulation", Electrical
 Communication (1967), pp. 165-172.
 Golding, L., "F1-Ditec-A-Digital Television Communications System for Satelite
 Links," Telecommunications Numeriques Par Satellite.
 Haberle, H. et al., "Digital TV Transmission via Satellite", Electrical
 Communications (1974).
 Dirks, H. et al., TV-PCM6 Integrated Sound and Vision Transmission System,
 Electrical Communication (1977), pp. 61-67.
 Talygin, N.V. et al., The "Orbita" Ground Station for Receiving Television Programs
 Relayed by Satellites, Elecktrovinz, pp. 3-5.
 1973 NAB Convention Program, Mar. 25-28, 1973.

Portions of Electronic Engineer's Reference Book (1989) -- Multichannel sound systems, Teletext transmission, cable television, ISDN applications, etc.

Yoshido, Junko, teletext back in focus: VBI service revived as alternative delivery system, *Electronic Engineering Times* (1994) (Abstract).

Blankenhorn, Dana, "In't Teletext expands market (International Teletext Communication Inc.)," *NewsBytes* (1993) (Abstract).

Collin, Simon, PC Text II (Hardware Review (Shortlist), *PC User* (1990).

Alfonzetti, Salvatore, "Interworking between teletext and OSI systems," *Computer Communications* (1989).

Gabriel, Michael R., Videotex and teletex: Waiting for the 21st Century?, *Education Technology* (1988).

Voorman, J.O. et al., A one-chip Automatic Equalizer for Echo Reduction in Teletext, *IEEE Transactions on Consumer Electronics*, pp. 512-529.

National Online Meeting: Proceedings -- 1982 sponsored by: Online Review, pp. 547-551.

MacKenzie, G.A., A Model for the UK Teletext Level 2 Specification (Ref: GTV2 242 Annex 6" based on the ISO Layer model.

Chambers, J.P., A Domestic Television Program Delivery Services, *British Broadcasting Corporation*, pp. 1-5.

McKenzie, G.A., UK Teletext -- The Engineering Choices, *Independent Broadcasting Authority*, pp. 1-8.

Adding a new dimension to British television, *Electronic Engineering* (1974).

Jones, Keith, The Development of Teletext, pp. 1-6.

Marti, B. et al., Discrete, service de television cryptee, *Revue de radiodiffusion -- television* (1975), pp. 24-30.

Ando, Heichero et al., Still-Picture Broadcasting -- A new Informational and Instructional Broadcasting System, *IEEE Transactions on Broadcasting* (1973), pp. 68-76.

Sauter, Dietrich, "Intelligente Komponenten Fur Das Afra-Bus-Fernsteuersystem", *Rundfunk technischen Mittelungen*, pp. 54-57.

Hogel, T. et al., "Afra-Bus-ein digitales Fersteuersystem fur Fernsehstudion Komplexe", *Fernseh-Und Kino-Technik* (1974), pp. 13-14.

Hogel, G., "Das Afra-Bus System: 2. Technische Struktur des AFRA-Bus-Systems", *Fernseh-Und Kino-Technik* (1975), pp. 395-400.

Krauss, G., "Das AFRA-Bus-System: 4. Wirtschaftlich Keits-betrachtungen und Rationalisierung seifekte beim Einsatz des AFRA-Bus-Systems", *Fernseh-Und Kino-Technik* (1976), pp. 40-49.

Wellhausen, H. "Das AFRA-Bus-System: 1. Grundsatzliche-Betrachtungen und Rationlisierung und Automatisierun in den Fernschbetreiben", *Fernseh-Und Kino-Technik* (1975), pp. 353-356.

Sauter, D., "Das AFRA-Bus-System: 3. Einsatz-moglich Keiten des Afra-Bus-Systems in Fernschbetrieben", *Fernseh-Und Kino-Technik* (1976), pp. 9-13.

B.B.C.I.B.A., Specification of Standards for information transmission by digitally coded signals in the field -- blanking interval of 625-line systems (1974), pp. 5-40.

Centre Commun Des De Television et Telecommunications, Specification du Systeme Di Teletext, Antiope.

Heller, Arthur, VPS -- Ein Neues System Zuragsgesteurten Programmanfzeichnung, *Rundfunk technisde Mitteilungen*, pp. 162-169.

Institut fur Rundfunktechnik, ARD/SDF/ZXEI -- Richtlinie "Video Programm-System", pp. 1-30.

Buro der Technischen Kommission, "Niederschrift uber die Besprechung zwischen Rundfunkanstalten (Techik, Sendeleiter) und ZVEI zur Einfuhrung des Video-Programm-Systems", pp. 1-4.

Buro der Technischen Kommission, Ergebnisse und Festlegungen anda "Blich einer Besprechung zwishen Rundfunanstalten . . .", pp. 1-4.

Koch, H. et al., "Bericht der ad hoc -- Arbeitsgruppe `Videotext programmiert Videorecorder` der TEK0", pp. 1-40.

European Broadcasting Union, "Specification of the Domestic Video Programme Delivery Control System", pp. 1-72.

ARD/ZDF/ZVEI-Richtlinie "Video Programme System".

Reports on Developments in USA, Teletext, EIA Meeting.

Videotex '81: A Special Report.

Tarrant, D.R., "Teletext for the World".

Clifford, Colin et al., "Microprocessor Based, Software Defined Television Controller", *IEEE Transaction on Consumer Electronics* (1978), pp. 436-441.

Hughes, William L. et al., "Some Design Considerations for Home Interactive Terminals", *IEEE Transactions on Broadcasting* (1971).

Mothersdale, Peter L., "Teletext and viewdata: new information systems using the

domestic television receiver", Electronics Record (1979), pp. 1349-1354.

Betts, W.R., "Viewdata: the evolution of home and business terminals", PROC.IEE (1979), pp. 1362-1366.

Hutt, P.R., "Theoretical and practical ruggedness of UK teletext transmission", PROC.IEE (1979), pp. 1397-1403.

Rogers, B.J., "Methods of measurement on teletext receivers and decoders", PROC.IEE (1979), pp. 1404-1407.

Green, N., "Subtitling using teletext service -- technical and editorial aspects", PROC.IEE (1979), pp. 1408-1416.

Chambers, M.A., "Teletext -- enhancing the basic system", PROC.IEE (1979), pp. 1425-1428.

Crowther, G.O., "Adaptation of UK Teletex System for 525/60 Operation", IEEE Transactions on Consumer Electronics (1980), pp. 587-596.

Marti, B. et al., Discrete, service de television cryptee, Revue de radiodiffusion -- television (1975), pp. 24-30.

Lopinto, John, "The Application of DRCS within the North American Broadcast Teletext Specification", IEEE Transactions on Consumer Electronics (1982), pp. 612-617.

BBC, BBC Microcomputer: BBC Microcomputer with Added Processor and Teletex Adaptor (Manual).

Green, N.W., "Picture Oracle," On Independent Television Companies Association Limited Letterhead.

National Captioning Institute, Comments on the Matter of Amendment of Part 73, Subpart E. of the Federal Communications Rules Government Television Stations to Authorize Teletext (before F.C.C.).

Balchin, C., "Videotext and the U.S.A.", I.C. Product Marketing Memo.

Koteen and Burt, "British Teletext/Videotex".

EIA Teletext Subcommittee Meetings, Report of USA Visit.

Brighton's Experience with Software for Broadcast (Draft).

The institution of Electronic and Radio Engineers, Conference on Electronic Delivery of Data and Software.

AT&T, "Videotex Standard Presentation Level Protocol".

Various Commissioner statements on Authorization of Teletext Transmissions by TV Stations, BC Docket No. 81-741.

Report and Order of FCC on the Matter of Amendment of Parts 2, 73 and 76 of the Commission's Rules to Authorize the Transmission of Teletext by TV Stations, pp. 1-37.

IBA Technical Review of Digital Television, pp. 1-64.

National Cable Television Association report, "Videotex Services" given at Executive Seminar.

LEXIS Research results for Patent No. 4,145,717.

Web page -- Company Overview of Norepack Corporation.

Coversheet titled, "Zing".

Lemelson v. Apple Computer, Inc. patent case in The Bureau of National Affairs, 1996.

A computer printout from Library Search.

Electronic Industries Association -- Teletext Subcommittee Task Group A -- Systems Minutes of Meeting Mar. 30, 1981 at Zenith plus attachments.

Electronic Industries Association -- Teletext Subcommittee Task Group A Systems Interim Report, Mar. 30, 1981 by Stuart Lipoff, Arthur D. Little Inc.

Minutes of Electronic Industries Association Teletext Subcommittee Task Force B -- Laboratory & Field Tests Mar. 30, 1981.

National Captioning Institute Report, "The 1980 Closed-Captioned Television Audience".

Electronic Industries Assoc. -- Teletext Subcommittee -- Steering Committee Minutes of Meeting on Mar. 31, 1981.

Aug. 6, 1990 letter from Herb Zucker to Walter Ciciora with attachment.

Articles, information sheets under cover sheet "QVP -- Pay Per View" Nov. 29, 1982.

National Cable Television Association report, "Videotex Services".

Scala Info Channel Advertisement, "The Art of Conveying A Message".

Zenith Corporation's Z-Tac Systems information includes Z-tac specifications, access list, etc.

Report by Cablesystems Engineering Ltd. on, "Zenith Addressable System and Operating Procedures" and Advertising documents.

The Broadcast Teletext Specification, published by the BBC, The IBA and the British Radio Equipment Manufacturers' Association (1976).

Kahn, et al., "Advances in Packet Radion Technology," . . . Proceedings of the IEEE, vol. 66, No. 11, Nov. (1978) pp. 1468-1495.

Clifford, C., "A Universal Controller for Text Display Systems," IEEE Transactions

on Consumer Electronics, (1979) pp. 424-429.

Harden, B., "Teletext/Viewdata LSI," IEEE Transactions on Consumer Electronics, (1979), pp. 353-358.

Bown, H. et al., "Comparative Terminal Realizations with Alpha-Geometric Coding," IEEE Transaction on Consumer Electronics, (1980), pp. 605-614.

Crowther, "Dynamically Redefinable Character Sets--D.R.C.S.," IEEE Transaction on Consumer Electronics, (1980), pp. 707-716.

Chambers, John et al., "The Development of a Coding Hierarchy for Enhanced UK Teletext," IEEE Transaction on Consumer Electronics, (1981), pp. 536-540.

Powell, C., "Prestel: The Opportunity For Advertising," Viewdata & Videotext, 1980-81 A Worldwide Report/Transcript of Viewdata '80 First World Conference On Viewdata, Videotex, and Teletext, Mar. 26-28, 1980, pp. 233-246.

Reuters, "Transmission Protocol for Reuters News-View," Aug. 1978, 2 pages.

Bright, R., "The Telematique Programme in France," Viewdata & Videotext, 1980-81 A Worldwide Report/Transcript of Viewdata '80 First World Conference On Viewdata, Videotex, and Teletext, Mar. 26-28, 1980, pp. 19-24.

Barlund, O., et al., "TELSET, the Finnish Viewdata System," Viewdata & Videotext, 1980-81 A Worldwide Report/Transcript of Viewdata '80 First World Conference On Viewdata, Videotex, and Teletext, Mar. 26-28, 1980, pp. 139-148.

Hutt, P., "Oracle-A Fourth Dimension in Broadcasting," IBM Technical Review, Sep. 1976/9 Digital Television Developments, pp. 3-9.

Hutt, P., "A System of Data Transmission in the Field Blanking Period of the Television Signal," IBA Technical Review, Jun. 1973, Digital Television, pp. 37-44.

Allora-Abbondi, G., "Transmission System Evaluation for Two-Way Cable," IEEE Transactions on Cable Television, vol. CATV-4, No. 3, Jul. 1979, pp. 111-118.

Chorafas, D., "Interactive Videotex -- The Domesticated Computer," 1981, pp. 171-183 & preface.

Baer, R., "Innovative Add-On TV Products," IEEE Transactions on Consumer Electronics, vol. CE-25, Nov. 1979, pp. 765-771.

Henderson, Jr., D., et al., "Issues in Message Technology," Proceedings, Fifth Data Communications Symposium, Sep. 27-29, 1977, pp. 6-1 -- 6-9.

Schmodel, S., "TV Systems Enabling Viewers to Call Up Printed Data Catch Eye of Media Firms," newspaper article, The Wall Street Journal, Tuesday, Jul. 24, 1979, p. 46.

Braden, R., "A Server Host System on the ARPANET," Proceedings, Fifth Data Communications Symposium, Sep. 27-29, 1977, pp. 4-1 -- 4-9.

Proceedings, Fifth Data Communications Symposium, Sep. 27-29, 1977, Table of Contents.

Greenberg, B., et al., "VIMACS -- A Vertical Interval Machine Control System," pp. 146-152.

Dynamic Technology Limited, Vimacs, Machine Control and Data Transmission Systems, product description, 6 pages.

Online Conference On Videotex, Viewdata, and Teletext, Conference Transcription, Table of Contents, 1980.

Viewdata 81, the second World Conference on viewdata, videotex and teletext, Table of Contents for written papers presented at the Conference, Oct., 1981.

Anderson, T., "The Vertical Interval: A General-Purpose Transmission Path," IEEE Transactions On Broadcasting, vol. BC-17, No. 3, Sep. 1971, pp. 77-82.

"LSI circuits to teletext and viewdata, THE Lucy Generation," Mullard, Technical Publication M81-0001, Jun. 1981.

Hedger, J., et al., "Telesoftware -- Value Added Teletext," IEEE Transactions on Consumer Electronics, vol. CE-26, Aug. 1980, pp. 555-566.

Hedger, J., "Telesoftware: Using Teletext to Support a Home Computer," Sep. 1978, pp. 273-276.

Zenith, "Virtext System, VI.6, Hardware and Software Reference Manual," Zenith Radio Corporation, Apr. 1981.

Hedger, J., "Broadcast Telesoftware: Experience with Oracle," 1980, pp. 413-429.

Aston, M.H., "Viewdata-Implications for Education," 1980, pp. 467-476.

de Weger, M., "Virdata Decoder V-2," circuit diagram, Jul. 1, 1981, 1 page.

"Virtext," circuit diagram, 1980, 1 page.

"UK Teletext and Videotex -- The world's first established electronic information services available to the public," Oracle -- Ceefax, 12 pages.

Lucas, K., "The Numerical Basis for Oracle Transmission," IBA Technical Review, vol. 9, Sep. 1976, Digital Television Developments, pp. 10-16.

Green, N., et al., "Oracle on Independent Television," IBA Technical Review, vol. 9, Sep. 1976, Digital Television Developments, pp. 18-31.

Green, N.W., "Computer Aided Programme Presentation," IBA Technical Review, vol. 1, Sep. 1972, pp. 55-64.

Beakhurst, D.J., et al., "Teletext and Viewdata -- A Comprehensive Component

Solution," Illustrations, Proceedings, IEEE, vol. 126, Dec. 1979, pp. 1382-1385.

Chambers, J.P., "Enhanced UK Teletext Moves Towards Still Pictures," IEEE Transactions on Consumer Electronics, vol. CE-26, Aug. 1980, pp. 527-554.

Crowther, G.O., "Dynamically Redefinable Character Sets -- D.R.C.S.," IEEE Transactions on Consumer Electronics, vol. CE-26, Nov. 1980, pp. 707-716.

Kaplinsky, C.H., "The D.sup.2 B a One Logical Wire Bus for Consumer Applications," IEEE Transactions on Consumer Electronics, vol. CE-27, Feb. 1981, pp. 102-109.

Vivian, R. H., et al., "Telesoftware Makes Broadcast Teletext Interactive," pp. 277-280.

Numaguchi, Y., et al., "Experimental Studies of Transmission Bit-Rate for Teletext Signal in the 525-Lane Television System," IEEE Transactions on Broadcasting, vol. BC-25, Dec. 1979, pp. 137-142.

Arnold, W.F., "Britons Mull 'Magazine' Via TV," Electronics, Feb. 5, 1976, pp. 68-69.

"Telesoftware," Systems International, Jun. 1980, p. 43.

Baldwin, J. L. E., et al., "A Standards Converter Using Digital Techniques," IBA Technical Review, vol. 3, Jun. 1973, Digital Television, pp. 15-35.

Hawker, P., "An Introduction to Integrated Circuits and Digital Electronics," IBA Technical Review, vol. 3, Jun. 1973, Digital Television, pp. 5-13.

Baldwin, J. L. E., "The Digital Future of Television Studio Centres," IBA Technical Review, vol. 3, Jun. 1973, Digital Television, pp. 45-51.

Bown, H. G., et al., "Comparative Terminal Realizations with Alpha-Geometric Coding," IEEE Transactions on Consumer Electronics, vol. CE-26, Aug. 1980, pp. 605-614.

Hanas, O. J., et al., "An Addressable Satellite Encryption System for Preventing Signal Piracy," IEEE Transactions on Consumer Electronics, vol. CE-27, Nov. 1981, pp. 631-635.

Breeze, E. G., "Television Line 21 Encoded Information and Its Impact on Receiver Design," Aug. 20, 1972, pp. 234-237.

Lentz, J., et al., "Television Captioning for the Deaf Signal and Display Specifications," Report No.: E-7709-C, PBS Engineering and Technical Operations, May 1980.

"Pulses on a Television Signal Control Stations in Network," Electronics, Feb. 6, 1967, pp. 101-012.

"Demonstration of the Principle of Data Transmission in the Vertical Interval of the Television Video Waveform," Oct. 22, 1968, 4 pages.

King, P. T., "A Novel TV Add-On Data Communication System," 5 pages.

Pierce, W. D., et al., "A Low Cost Terminal for the 1980's: Project Green Thumb," IEEE Transactions on Consumer Electronics, vol. CE-26, Aug. 1980, pp. 487-495.

"CBS/CCETT North American Broadcast Teletext Specification," (Extended Antiope), May 20, 1981.

Baer, W. S., "Interactive Television: Prospects for Two-Way Services on Cable," Rand Corporation, Nov. 1971, pp. 1-88.

Noirel, Y, et al., "Architecture of the French LSI Set for Antiope Teletext Decoders," pp. 134-144.

Beakhust, D. J., et al., "Teletext and Viewdata -- A Comprehensive Component Solution," Proceedings, IEEE, vol. 126, Dec. 1979, pp. 1374-1396.

Money, S. A., et al., "Teletext Decoder Update -- Part 1," Television, Jun. 1979, pp. 407-409.

Money, S. A., et al., "Teletext Decoder Update -- Part 2," Television, Jun. 1979, pp. 479-481.

Money, S. A., et al., "Teletext Decoder Update -- Part 3," Television, Aug. 1979, pp. 538-541.

Peters, H., "Teletext the Philips Way," Television, Apr. 1980, pp. 298-301.

Crowther, G. O., "Teletext and Viewdata Systems and Their Possible Extension to the USA," Proceedings, IEE, vol. 126, No. 12, Dec. 1979, pp. 1417-1424.

Shortland, D., "Teletext with Infra-Red Remote Control," Practical Electronics, Aug. 1980, pp. 39-44.

Mokhoff, N., "Consumer Electronics," Technology '80, pp. 64-68.

Government of Canada, Department of Communications, "Broadcast Specification: Television Broadcast Videotex," Jun. 19, 1981.

Insam, E., et al., "An Integrated Teletext and Viewdata Receiver," The SERT Journal, vol. 11, Oct. 1977, pp. 210-213.

Thomas, H. B., et al., "Methods of Designing and Evaluating Videotex," Online: A Transcript of the Online Conference on Videotex, Videodata and Teletext, 1980, pp. 203-216.

Wright, J. B., et al., "An Evolutionary Approach to the Development of Two-Way Cable Technology Communication," IEEE Transactions on Cable Television, vol. CATV-2, No. 1, Jan. 1977, pp. 52-61.

Fedida, S., et al., "Viewdata -- The Post Office Textual Information and Communications System," *Wireless World*, Feb. 1977, pp. 32-35.

Fedida, S., et al., *Videodata Revolution*, Halsted Press, New York, 1979, pp. 1-31 and 170-183.

Clarke, K. E., "The Application of Picture Coding Techniques to Viewdata," *IEEE Transactions on Consumer Electronics*, vol. CE-26, Aug. 1980, pp. 568-577.

Blatt, J. et al., "The Promise of Teletext for Hearing Impaired Audiences," *IEEE Transactions on Consumer Electronics*, vol. CE-26, Nov. 1980, pp. 717-722.

Rupp, C. R., "A Stand-Alone CAI System Based on Procedural Grammars," *EASCON '76 Record*, Sep. 1976, pp. 1153-A through 1153-Z.

Vezza, A., et al., "An Electronic Message System: Where Does It Fit?," *Trends and Applications 1976: Computer Networks*, Nov. 17, 1976, pp. 89-97.

Myer, T. H., et al., "Message Technology in the Arpanet," *NTC '77*, 21: 2-1 through 2-8.

Kuo, F. F., "Message Services in Computer Networks," *Interlinking of Computer Networks*, Reidel Publishing Co., 1978, pp. 387-395.

Hagan, R., "Interworking Between Different Text Communication Services and Between Different Text Communication Networks," *NTC 1980 -- Conference Record*, Nov. 1980, pp. 28.5.1-28.5.6.

Rinde, J., "Packet Network Access in Electronic Mail System," *NTC 1980 -- Conference Record*, Nov. 1980, pp. 60.4.1-60.4.4.

Wendlinger, F., et al., "Systems for Corporate Text Communication," *NTC 1980 -- Conference Record*, Nov. 1980, pp. 65.5.1-65.5.4.

Naffah, N., "Communication Protocols for Integrated Office Systems," *Computer Networks*, vol. 5, No. 6, 1981, pp. 445-454.

Treves, S. R., et al., "Text, Image, and Data Integration In a Distributed Control Digital Voice Switching System," *ISS '81*, Sep. 1981.

Wiest, G., et al., "An Integrated Service Broadband Network for Voice, Text, Data and Video," *ISS '81*, Sep. 1981.

Dickson, E.M. et al., *The Video Telephone*, Praeger Publishers, 1973, pp. v. and 9-78.

Rayner, B., "The Application of Switcher-Intelligent Interfaces to Video Tape Editing," *SMPTE Journal*, vol. 88, Oct. 1979, pp. 715-717.

Everton, J.K., "A Hierarchical Basis for Encryption Key Management in a Computer Communications Network," *Conference Record -- 1978 International Conference on Communications*, vol. 3, pp. 46.4.1 through 46.4.7.

Davies, D.W., et al., *Computer Networks and Their Protocols*, John Wiley & Sons, 1979, pp. v-xiii and 390-417.

Popek, G.J., et al., *Encryption and Secure Computer Networks*, Computing Surveys, vol. 11, No. 4, Dec. 1979, pp. 331-356.

Everton, J.K., "Adaptation of the Basic Hierarchy for Encryption Key Management to Serve Applications with Conflicting Requirements," *Proceedings, Computer Networking Symposium*, Dec. 1979, pp. 186-191.

Nelson, J., "Implementations of Encryption in an 'Open Systems' Architecture," *Proceedings, Computer Networking Symposium*, Dec. 1979, pp. 198-205.

Lyons, R.E., "A Total AUTODIN System Architecture," *IEEE Transactions on Communications*, vol. Com-28, No. 9, Sep. 1980, pp. 1467-1471.

Powers, S., et al., "Memo: An Application of Secret Key Cryptography and Public Key Distribution," *CompSac '80*, Oct. 1980, pp. 821-827.

Allgaier, G. R., et al., "Navy Command and Control (c.sup.2) Using Local Networks," *NTC 1980 -- Conference Record*, Nov. 1980, vol. 1, pp. 41.3.1 through 41.3.5.

Kowalchuk, J., et al., "Communications Privacy: Integration of Public and Secret Key Cryptography," *NTC 1980 -- Conference Record*, Nov. 1980, pp. 49.1.1 through 49.1.5.

Denning, D.E., et al., "Timestamps In Key Distribution Protocols," *Communications of the ACM*, vol. 24, No. 8 Aug. 1981, pp. 533-536.

Chambers, J.P., et al., "The Development of a Coding Hierarchy for Enhanced UK Teletext," *IEEE Transactions on Consumer Electronics*, vol. CE-27, No. 3, Aug. 1981, pp. 536-540.

Takizawa, M., et al., "Resource Integration and Data Sharing on Heterogeneous Resource Sharing System," *Evolutions In Computer Communications*, 1978, pp. 253-258.

Smith, R.G., et al., "Considerations for Microprocessor-based Terminal Design," *Conference Record -- 12th Asilomar Conference on Circuits, Systems and Computers*, Nov. 1978, pp. 437-441.

Mowafi, O.A., et al., "Integrated Voice/Data Packet Switching Techniques for Future Military Networks," *Proceedings, Computer Networking Symposium*, 1979, pp. 216-223.

Day, J.D., "Terminal Protocols," *IEEE Transactions on Communications*, vol. COM-28, No. 4, Apr. 1980, pp. 585-593.

Rosen, E.C., "The Updating Protocol of ARPANET's New Routing Algorithm," *Computer Networks*, vol. 4, 1980, pp. 11-19.

Hasuike, K., et al., "Text and Facsimile Integrated Terminal," NTC 1980-Conference Record, 1980, p. 60.5.1 through 60.5.5.

Cerf, V.G., et al., "An Experimental Service for Adaptable Data Reconfiguration," IEEE Transactions on Communications, vol. COM-20, No. 3, Jun. 1972, pp. 557-564.

Croll, R.H., et al., "A Distributed Data Acquisition and Processing System for Multiple Aerospace Test Facilities," Proceedings of the 26th Int'l Instrumentation Symposium, May 1980, pp. 287-295.

Tsay, D.P., et al., "Design of a Robust Network Front-End for the Distributed Double-Loop Computer Network," Distributed Data Acquisition, Computing, and Control Symposium, Dec. 1980, pp. 141-155.

Glorieux, A.M., et al., "Distributing a Line System into a Distributed Data Base Management System: Sirius-Delta Experience," Proceedings -- Computer Networking Symposium, Dec. 1980, pp. 19-25.

Chambers, J.P., "Potential of Extended Teletext," Television: Journal of the Royal Television Society, Sep./Oct. 1980, pp. 43-45.

Chambers, J.P., "Teletext -- The Potential of an Extended System," pp. 114-117.

Pandey, K., "Advanced Teletext Systems," pp. 262-265.

Hartung, R.L., et al., "Virtual I/O -- An Experiment," Sigmicro Newsletter, vol. 10, No. 4, Dec. 1979, pp. 109-113.

Daniels, J.F., "Wireless World Teletext Decoder," Wireless World, Dec. 1975, pp. 563-566.

"Microprocessor Smartens Teletext," Electronics, Sep. 28, 1978, p. 74.

Sowter, B., "Vision of the Future," International Broadcast Engineer, Dec. 1977/Jan. 1978, pp. 13-19.

VIMACS -- Machine Control and Data Transmission System, Advertisement, 3 pages.

O'Connor, R.A., "Current Usage of Vertical Interval Test Signals in Television Broadcasting," IEEE Transactions on Consumer Electronics, Aug. 1976, pp. 220-229.

Solomon, B., "New World of T.V. Reception," Popular Electronics, May 1979.

Setos, A., "WASEC'S Network Operations Center," Cable: '81, May 1981, pp. 52-54.

Beakley, G.W., et al., "Cable and Earth Stations -- A Business Connection," Cable: '81, May 1981, pp. 108-113.

"Petition for Rulemaking of United Kingdom Teletext Industry Group," Before the Federal Communications Commission, Mar. 26, 1981, 139 pages.

Conte, J.J., et al., "A NOAA/National Weather Service Teletext Type Weather Experiment," Nov. 1979.

Vivian, R.H., "Level 4 Enhanced UK Teletext Transmits Graphics Through Efficient Alpha-Geometric Coding," IBA, pp. 1-6.

Bugg, R.E.F., "Microprocessor Peripheral for Viewdata" Electronic Components & Applications, vol. 3, No. 2, Feb. 1981, pp. 2-11.

Chambers, J.P., "Enhanced UK Teletext Moves Towards Still Pictures," BBC Research Report-BBC RD 1980/4, Jun. 1980, pp. 1-28.

VG Electronics -- Short Form Catalogue, 4 pages.

Multitext -- Technical Information 050, Signetics, pp. 3-51.

Presentation Level Protocol -- Videotex Standard, Bell System, May 1981, pp. 1-105.

Crozier-Cole, P.A., "Regional Operations Centres-The next Generation," pp. 7-9.

Crozier-Cole, P.A., "Regional Operations Centres for the IBA UK Transmitter Network," pp. 197-204.

Lloyd, H.F., et al., "A Television-Networking Switching Equipment to 625-Line Colour Standards," pp. 199-201.

Griffiths, E., "Eurovision's Technical Facilities," pp. 215-220.

Parker, F.G., "The Impact of Digital Techniques on Studio Equipment," pp. 267-272.

"Family Functional Specification," Norpak Limited, Aug. 7, 1981, 14 pages.

"Software Specification for Monitoring the Use of Teletext," Norpak Limited, Nov. 1980, 4 pages.

Wegner, R., "The 1980's -- A New Era for the Data Display System," pp. 62-64.

"Vidata -- 2105/Interface," 9 pages.

"Vidata -- 352/BNC Connectors," Wegener Communications, Inc., 8 pages.

Taylor, E.L., "Teletext v. Videotext: Pros and Cons and What's Really Going On," For TVC Magazine, 6 pages.

Service Bulletin, To All Cabletext Customers with Zenith Virtext Decoders, Nov. 14, 1980, 8 pages.

Thomas, W., "Zenith Videotext/Teletext Review," 3 pages.

Sullivan, W., "Cabletext: Into Second Year and Developing," Satellite Communications Corp., 4 pages.

Vidata Interface Cable (Vidata 2105).

Gallagher, E.F., "Digital Time Division Switching for Military Communications," IEEE Transactions on Communications, vol. COM-27, No. 7, Jul. 1979, pp. 1138-1143.

Roth, M., "Security Alert a Two-Way Digital Communications System," Official Transcript -- 20th Annual NCTA Convention, Jul. 1971, pp. 500-506.

Zenith Text Products, Advertisement, 4 pages.

Gardner, T., "Viewers Given Equal Time to Talk Back to TV Sets," Aug. 1977.

Campbell, S., "Step Ahead of Future TV Market," The Register, Oct. 26, 1978.

Bown, H.G., et al., "Picture Description Instructions PDI for the Telidon Videotex System," Department of Communications, Canada, Nov. 1979, pp. 1-71.

"A Example of Aggressive Subcarrier Loading," Table, United Video Inc.

Livaditis, E., et al., "Optimizing Subcarriers for Satellite Transmission," National Cable Television's 30th Annual Convention and Exposition, May 1981, 6 pages.

Gunn, H., et al., "A Public Broadcaster's View of Teletext in the United States."

Fraser, J., "From `Pots` to `Pans` -- Videotex Development in Canada," OnLine Conference on Viewdata Services, Mar. 1980, pp. 1-10.

Parkhill, D.F., "An Overview of the Canadian Scene," Viewdata '80, Mar. 1980, pp. 1-12.

Maguire, W.T., "Videotex and the Newspaper Business," American Newspaper Publishers Association.

Wilson, L.G., "Vista: Leading to the Successful Implementation of Videotex in Canada," OnLine Conference On Viewdata Services, Mar. 1980.

Guillermi, J., "Development & Applications of the Antiope-Didon Technology," Viewdata '80, Mar. 1980, pp. 29-38.

Haimes, A.R., "IVS-3 as a Private Viewdata System," Viewdata '80, Mar. 1980, pp. 323-336.

Haslam, G., "Information Provider Activities in Canada," Viewdata '80, Mar. 1980, pp. 1-6.

Heys, E.A., et al., "STC's Approach to In-House Viewdata Systems, Viewdata '80, Mar. 1980, pp. 313-322.

Inoue, R., "The Index System of the Captain System Experimental Service," Viewdata '80 Mar. 1980, pp. 113-122.

Kumamoto, T., et al., "Captain System Features -- Presentation Capability and Transmission Method," Viewdata '80, Mar. 1980, pp. 93-105.

Kurushima, N., "The Cooperative Association of Captain Information Providers and Present State of Information Supply for the Experimental Service," Viewdata '80, Mar. 1980, pp. 123-132.

Marti, B., "Broadcast Text Information in France," Viewdata '80, Mar. 1980, pp. 359-370.

Maury, J.P., "Plans and Projection for the Electronic Directory Service," Viewdata '80, Mar. 1980, pp. 39-50.

Messerschmid, U., "Teletext in the Federal Republic of Germany," Viewdata '80, Mar. 1980, pp. 431-445.

Montague, P.M., "The Electronic Newspaper," Viewdata '80, Mar. 1980, pp. 63-71.

Morgan, G., "Britains Teletext Services are a Commercial Success," Viewdata '80, Mar. 1980, pp. 341-357.

Park, R.F., "The Role of Viewdata in Electronic Funds Transfer," Viewdata '80, Mar. 1980, pp. 185-201.

Ruiten, P.J.G.M., "Viewdata in the Netherlands," Viewdata '80, Mar. 1980, pp. 133-138.

Sedman, E.C., "The Use of MicroCobol for Telesoftware," Viewdata '80, Mar. 1980, pp. 399-411.

Shrimpton, W., "International Business Applications of Viewdata," Viewdata '80, Mar. 1980, pp. 147-158.

Smirle, J.C., et al., "International Videotex Standardization: A Canadian View of Progress Towards the Wired World," Viewdata '80, Mar. 1980, pp. 271-280.

Smith, M.G., "Prestel -- The Private System or Both?," Viewdata '80, Mar. 1980, pp. 337-339.

Tantawi, A.N., et al., "Workstations in the Electronic Office," Viewdata '80, Mar. 1980, pp. 159-171.

Termens, M., "Teletel -- The Planned French Videotex Service," Viewdata '80, Mar. 1980, pp. 25-28.

Troughton, P., "Prestel Operational Strategy," Viewdata '80, Mar. 1980, pp. 51-62.

Watson, K., "Prestel User Market Research," Viewdata '80, Mar. 1980, pp. 281-284.

Winsbury, R., "Prestel as a publishing medium: the elements of success or failure," Viewdata '80, Mar. 1980, pp. 285-293.

Woolfe, R., "The emerging markets for vidotex," Viewdata '80, Mar. 1980, pp. 217-231.

Yasuda, K., "Conception of Captain System -- Background, Experiment and Future Plans," Viewdata '80, Mar. 1980, pp. 107-111.

Zimmerman, R., "Future Utilization of Interactive and Broadcast Videotex in Germany and its Effects on Standardization," Viewdata '80, Mar. 1980, pp. 263-269.

Adams, D.M., "The Place of Viewdata in Relation to Other Communications Techniques in the Travel Industry: A Personal View," Viewdata & Videotext, 1980-81: A Worldwide

Report, 1980, pp. 379-397.

Barren, J., "Electronic Publishing and the Government," Viewdata & Videotext, 1980-81: A Worldwide Report, 1980, pp. 295-300.

Berkman, S., "A Videotex Trial," Viewdata & Videotext 1980-81: A Worldwide Report, 1980, pp. 447-460.

Bochmann, G.V., et al., "Towards Videotex Standards," Viewdata & Videotext, 1980-81: A Worldwide Report, 1980, pp. 253-262.

Botten, B., "Providing Business Information to Prestel," Viewdata & Videotext, 1980-81: A Worldwide Report, 1980, pp. 73-81.

Bown, H.G. et al., "Telidon Technology Development in Canada," Viewdata & Videotext, 1980-81: A Worldwide Report, 1980, pp. 547-558.

Ciciora, W.S., "The Role of the Television Receiver Manufacturer in the United States," Viewdata & Videotext, 1980-81: A Worldwide Report, 1980 pp. 533-546.

Bowers, P.G., et al., "Telidon and Education in Canada," Viewdata & Videotext, 1980-81: A Worldwide Report, 1980, pp. 7-17.

Camrass, R., "Viewdata: A Practical Medium for Electronic Mail," Viewdata & Videotext, 1980-81: A Worldwide Report, 1980, pp. 173-184.

Castell, S., "Prestel and the Law," Viewdata & Videotext, 1980-81: A Worldwide Report, 1980, pp. 301-312.

Clarke, K.E., "What Kind of Pictures for Videotex?," Viewdata & Videotext, 1980-81: A Worldwide Report, 1980, pp. 83-92.

Courtney, J.F., "Videotel," Viewdata & Videotext 1980-81: A Worldwide Report, 1980, pp. 371-377.

Davis, M., "Prestel and the Travel Industry," Viewdata & Videotext, 1980-81: A Worldwide Report, 1980, pp. 595-602.

Korda, A., "Private Viewdata Systems," Viewdata & Videotext, 1980-81: A Worldwide Report, 1980, pp. 515-521.

Maslin, J.M., "An evaluation of Viewdata for training in industry," Viewdata & Videotext, 1980-81: A Worldwide Report, 1980, pp. 523-531.

Morioka, F.K., "An Experiment with Computer-Based Educational Services in a General Public Environment," Viewdata & Videotext, 1980-81: A Worldwide Report, 1980, pp. 613-623.

Chambers, J.P., "Potential of Extended Teletext," Television: Journal of the Royal Television Society, Sep./Oct. 1980, pp. 43-45.

Ciciora, W.S., "Twenty-Four Rows of Videotex in 525 Scan Lines," IEEE Transactions on Consumer Electronics, vol. CE-27, No. 4, Nov. 1981, pp. 575-587.

Ciciora, W.S., "Virtext & Virdata -- A Present U.S. Teletext Application," Videotex '81, May 1981, pp. 77-84.

Johnson, G.A., et al., "The Networking of Oracle," pp. 27-36.

Mullard Application Laboratory, "Integrated Circuits for Receivers," pp. 43-56.

Lambourne, A.D., "NEWFOR -- An Advanced Subtitle Preparation System," pp. 57-63.

Keyfax -- National Teletext Magazine, Advertisement, 4 pages.

Keyfax -- National Teletext Magazine, Technical Bulletin, 1 page.

Keyfax, Keyfax by Satellite, Advertisement, 2 pages.

Oracle, Advertisement Rate Card No. 1, Sep. 1, 1981, 8 pages.

"Multi-Level Teletext and Interactive Videotex," Operational Systems Worldwide, Information Sheets.

"Brighton's Experience with Educational Software for Broadcast," 10 pages.

CCITT, "Recommendation S.100 -- International Information Exchange for Interactive Videotex," Geneva, 1980, pp. 165-205.

KSL-TV-Salt Lake City, Utah, Press Release About Teletext Signal, pp. 1-7d.

CBS/CCETT, "North America Broadcast Teletext Specification," Jun. 22, 1981, pp. 1-240.

Crudele, J., "TI Tests Home Information System," Electronic News, Nov. 6, 1978, pp. 24-25.

"Systems --NABTS-NAPLPS," VSA -- Videographic, Advertisement, 5 pages.

"Now," World System Teletext, Advertisement, 6 pages.

"Context" A Complete Teletext Origination System Developed By Logica and the BBC, Advertisement, 8 pages.

Dages, C.L., "Videotex Services vis CATV - Hybrid Systems Approach," pp. 14-25.

Rogers, B.J., "The Broadcasting Options for Data Transmission Methods in Public Service Broadcasting," pp. 1-3.

Williams, D., "Oak, Micro TV in Talks for Teletext," Electronic News, Nov. 13, 1978, pp. 25&88.

"U.S. TV Station to Write Viewdata Software Link," newspaper article, Jan. 22, 1979, p. 81.

Barbetta, F., "CBS Joins EIA in Test of Foreign TV Data System," newspaper article, 1979, p. 23.

Hershberger, S., "Form Mktg. Unit for Antiope System," newspaper article, Apr. 2,

1979, p. 27.

Hershberger, S., "Say French in Talks on Teletext," newspaper article, May 14, 1979, p. 48.

Glover, S., "Automatic Switching at the Edmonton Television Studios," SMPTE Journal, Nov. 1966, vol. 75, pp. 1089-1092.

Barlow, M.W.S., "The Remote Control of Multiplexed Telecine Chains," SMPTE Journal, Apr. 1971, vol. 80, pp. 270-275.

Campbell, Keith D., "An Automated Video-Tape Editing System," Journal of the SMPTE, Mar. 1970, vol. 79, pp. 191-194.

Bonney, R.B., et al., "A Proposed Standard Time and Control Code for Video-Tape Editing," Journal of the SMPTE, Mar. 1970, vol. 79, pp. 186-190.

Barlow, M., Letter to the Editor, "Re: Coding and Packaging Film for Broadcasting," Journal of the SMPTE, Oct. 1969, vol. 78, p. 889.

Barlow, M., Letter to the Editor, "Re: Automation of Telecine Equipment," Journal of the SMPTE, Apr. 1970, vol. 79, pp. 345-346.

Matley, J. Brian, "A Digital Framestore Synchronizer," SMPTE Journal, Jun. 1976, vol. 85, pp. 385-388.

Connolly, W.G., et al., "The Electronic Still Store: A Digital System for the Storage and Display of Still Pictures," SMPTE Journal, Aug. 1976, vol. 85, pp. 609-613.

Sadashige, K., "Overview of Time-Base Correction Techniques and Their Applications," SMPTE Journal, Oct., 1976, vol. 85, pp. 787-791.

Siocos, C.A., "Satellite Technical and Operational Committee -- Television (STOC-TV) Guidelines for Waveform Graticules," SMPTE Journal, Nov. 1976, vol. 85, pp. 878-879.

"Index to Subjects -- Jan.-Dec. 1976 .circle-solid. vol. 85," 1976 Index to SMPTE Journal, SMPTE Journal, vol. 85, pp. I-5 to I-13, I-15.

Rodgers, Richard W., "Design Considerations for a Transmission and Distribution System for SMPTE Time-Code Signals," SMPTE Journal, Feb. 1977, vol. 86, pp. 69-70.

Allan, J.J., III, et al., "A Computer-Controlled Super-8 Projector," SMPTE Journal, Jul. 1977, vol. 86, pp. 488-489.

"Index to Subjects -- Jan.-Dec. 1977 .circle-solid. vol. 86," 1977 Index to SMPTE Journal, SMPTE Journal, vol. 86, pp. I-5 to I-14.

Hamalainen, K.J., "Videotape Editing Systems Using Microprocessors," SMPTE Journal, Jun. 1978, vol. 87, pp. 379-382.

McCoy, Reginald F.H., "A New Digital Video Special-Effects Equipment," SMPTE Journal, Jan. 1978, vol. 87, pp. 20-23.

Leonard, Eugene, "Considerations Regarding the Use of Digital Data to Generate Video Backgrounds," SMPTE Journal, Aug. 1978, vol. 87, pp. 499-504.

Swetland, George R., "Applying the SMPTE Time and Control Code to Television Audio Post Production," SMPTE Journal, Aug. 1978, vol. 87, pp. 508-512.

Moore, J.K., et al., "A Recent Innovation in Digital Special Effects, The CBS 'Action Track' System," SMPTE Journal, Oct. 1978, vol. 87, pp. 673-676.

Connolly, William G., "Videotape Program Production at CBS Studio Center," SMPTE Journal, Nov. 1978, vol. 87, pp. 761-763.

Nicholls, William C., "A New Edit Room Using One-Inch Continuous-Field Helical VTRs," SMPTE Journal, Nov. 1978, vol. 87, pp. 764-766.

"Index to vol. 87 Jan.-Dec. 1978," SMPTE Journal, Part II to Jan. 1979 SMPTE Journal, pp. I-1, I-4 to I-14.

Wetmore, R. Evans, "System Performance Objectives and Acceptance Testing of the Public Television Satellite Interconnection System," SMPTE Journal, Feb. 1979, vol. 88, pp. 101-111.

Bates, George W., "Cut/Lap: A New Method for Programmable Fades and Soft Edit Transitions Using a Single Source VTR," SMPTE Journal, Mar. 1979, vol. 88, pp. 160-161.

Douglas, W. Gordon, "PBS Satellite Interconnection Technical Operations and Maintenance," SMPTE Journal, Mar. 1979, vol. 88, pp. 162-163.

Oliphant, Andrew et al., "A Digital Telecine Processing Channel," SMPTE Journal, Jul. 1979, vol. 88, pp. 474-483.

Bates, George W. et al., "Time Code Error Correction Utilizing a Microprocessor," SMPTE Journal, Oct. 1979, vol. 88, pp. 712-715.

Geise, Heinz-Dieter, "The Use of Microcomputers and Microprocessors in Modern VTR Control," SMPTE Journal, Dec. 1979, vol. 88, pp. 831-834.

"Index to Subjects -- Jan.-Dec. 1979 .circle-solid.vol. 88," 1979 Index to SMPTE Journal, SMPTE Journal, vol. 88, pp. I-4 to I-10.

"Advanced Transmission Techniques," SMPTE Journal, Report on the 121st Technical Conference, Jan. 1980, vol. 89, pp. 31-32.

"Anderson: Progress Committee Report for 1979 -- Television," SMPTE Journal, May 1980, vol. 89, pp. 324-328.

SMPTE Journal, May 1980, vol. 89, p. 391, no title.

"The TCR-119 Reader," Gray Engineering Laboratories, SMPTE Journal, May 1980, vol. 89, p. 438, (advertisement).

Hopkins, Robert S., Jr., "Report of the Committee on New Technology," SMPTE Journal, Jun. 1980, vol. 89, pp. 449-450.

Limb, J.O. et al., "An Interframe Coding Technique for Broadcast Television," SMPTE Journal, Jun. 1980, vol. 89, p. 451.

"Preliminary List of Papers," SMPTE Journal, Sep. 1980, vol. 89, p. 677.

Davis, John T., "Automation of a Production Switching System," SMPTE Journal, Oct. 1980, vol. 89, pp. 725-727.

"Video Tape Recording Glossary," SMPTE Journal, Oct. 1980, vol. 89, p. 733.

Advertisement, "CTVM 3 series of Barco master control color monitors", Barco TV Modulator, Model VSBM 1/S, VICMACS Type 1724 Vertical Interval Machine Control System, Videotape Editing Controllers by USJVC Corp., RM-70U, RM-82U, RM-88U, SMPTE Journal, Oct. 1980, vol. 89, p. 820 et seq.

Ciciora, Walter, "Teletext Systems: Considering the Prospective User," SMPTE Journal, Nov. 1980, vol. 89, pp. 846-849.

Hathaway, R.A. et al., "Development and Design of the Ampex Auto Scan Tracking (AST) System," SMPTE Journal, Dec. 1980, vol. 89, p. 931.

Connor, Denis J., "Network Distribution of Digital Television Signals," SMPTE Journal, Dec. 1980, vol. 89, pp. 935-938.

"Index to Subjects -- Jan.-Dec. 1980 .circle-solid. vol. 89," 1980 Index to SMPTE Journal, SMPTE Journal, pp. I-5 to I-11.

"Index to SMPTE-Sponsored American National Standards, Society Recommended Practices, and Engineering Committee Recommendations," 1980 Index to SMPTE Journal, SMPTE Journal, pp. I-15 to I-20.

Table of Contents, SMPTE Journal, Feb. 1981, vol. 90, No. 2, 1 page.

Table of Contents, SMPTE Journal, Mar. 1981, vol. 90, No. 3, 1 page.

Table of Contents, SMPTE Journal, Apr. 1981, vol. 90, No. 4, 1 page.

Table of Contents, SMPTE Journal, May 1981, vol. 90, No. 5, 1 page.

"Television," SMPTE Journal, May 1981, pp. 375-379.

Table of Contents, SMPTE Journal, Jan. 1981, vol. 90, No. 1, 1 page.

Table of Contents, SMPTE Journal, Jun. 1981, vol. 90, No. 6, 1 page.

Table of Contents, SMPTE Journal, Jul. 1981, vol. 90, No. 7, 1 page.

Table of Contents, SMPTE Journal, Aug. 1981, vol. 90, No. 8, 1 page.

"American National Standard" Time and control code for video and audio tape for 525-line/60-field television systems, SMPTE Journal, Aug. 1981, pp. 716-717.

Table of Contents, SMPTE Journal, Sep. 1981, vol. 90, No. 9, 1 page.

"Proposed SMPTE Recommended Practice" Vertical Interval Time and Control Code for Video Tape for 525-Line/60-Field Television Systems, SMPTE Journal, Sep. 1981, pp. 800-801.

Table of Contents, SMPTE Journal, Oct. 1981, vol. 90, No. 10, 1 page.

Kaufman, Paul A. et al., "The Du Art Frame Count Cueing System," SMPTE Journal, Oct. 1981, pp. 979-981.

"American National Standard" dimensions of video, audio and tracking control records on 2-in video magnetic tape quadruplex recorded at 15 and 7.5in/s, SMPTE Journal, Oct. 1981, pp. 988-989.

Table of Contents, SMPTE Journal, Nov. 1981, vol. 90, No. 11, 1 page.

Table of Contents, SMPTE Journal, Dec. 1981, vol. 90, No. 12, 1 page.

Powers, Kerns H., "A Hierarchy of Digital Standards for Teleproduction in the Year 2001," SMPTE Journal, Dec. 1981, pp. 1150-1151.

"Application of Direct Broadcast Satellite Corporation for a Direct Broadcast Satellite System," Before the Federal Communications Commission, Washington, D.C., Gen. Docket No. 80-603, Jul. 16, 1981.

Taylor, John P., "Comsat bid to FCC for DBS authorization: Questions of finances, localism, monopoly," Television/Radio Age, May 4, 1981, pp. 42-44 and 80-81.

Taylor, John, P., "Fourteen DBS authorization applications to FCC differ greatly in both structure and operations," Television/Radio Age, Oct. 5, 1981, pp. 40-42 and 116-119.

Taylor, John P., "Comsat bid to FCC for DBS authorization: Is direct broadcasting the wave of the future?", Television/Radio Age, Mar. 23, 1981, pp. A-22-24 and A-26 and A-28-31.

"SMPTE Journal Five-Year Index 1971-1975," SMPTE Journal.

"SMPTE Journal Five-Year Index 1976-1980," SMPTE Journal.

"Window on the World" The Home Information Revolution, Business Week, Jun. 29, 1981, pp. 74-83.

"Everything you've always wanted to know about TV Ratings," A.C. Nielsen Company, brochure, 1978.

"Management With The Nielsen Retail Index System," A.C. Nielsen Company, 1980.

Wilson, Donald H. "A Process For Creating A National Legal Computer Research Service In The United States," remarks at the conference on World Peace Through World Law and World Assembly of Judges, Belgrade, Yugoslavia, Jul. 23, 1971.

"Advanced Minicomputer-based Systems for Banking and Financial Institutions," Money Management Systems, Incorporated, brochure, 1980, 9 pages.

New York Stock Exchange, Inc., Computer Input Services, Schedule of Monthly Charges, Aug. 1, 1981, 1 page.

"How to increase training productivity through Videodisc and Microcomputer systems," seminar brochure, 1981.

O'Donnell, John et al., "Videodisc Program Production Manual," Somy, 1981.

"Camp," Arbitron Cable, The Arbitron Company, product brochure, May 1980, 8 pages.

Ferretti, Fred, "For Major-League Addicts, A Way to Win a Pennant," The New York Times, Jul. 8, 1980, 1 page.

Christopher, Maurine, "BAR cable service set," Advertising Age, Sep. 21, 1981, pp. 68 & 72.

"In this corner, Digisonics!," Media Decisions, Jun. 1968, 5 pages.

"Did the ad run?," Media Decisions, Jul. 1969, pp. 44 et seq.

"Digisonics TV Monitor System Finds Defenders," Advertising Age, Dec. 8, 1969, 1 page.

Dougherty, Philip, "Gathering Intelligence For Profit," newspaper article, 1981, p. D7.

"Vidbits," Advertising Age, Sep. 21, 1981, p. 70.

"Measuring The Cable Audience," Ogilvy & Mather, Advertising, 1980, pp. H1-H8.

Cooney, John E., "Counting Cable's Gold Coins," View, Sep., 1981, 4 pages.

"Cable TV Advertising," Paul Kogan Associates, Inc., No. 22, Feb. 18, 1981, 6 pages.

"IDC begins monitoring," At Deadline, Broadcasting, Sep. 14, 1970, p. 9.

"Contraband code," Closed Circuit, Broadcasting, Sep. 28, 1970, 1 page.

"Listeners," Closed Circuit, Broadcasting, 1 page.

"Digisonics violated standards, says BAR," Broadcasting, Oct. 5, 1970, pp. 21-23.

"Talent pay code put off," At Deadline, Broadcasting, Nov. 9, 1970, p. 9.

"Digisonic' Aim Is Info Bank, Not Just Proof of Performance," Advertising Age, Nov. 9, 1970, 4 pages.

"Digisonics pushes its coding method," Broadcasting, Dec. 7, 1970, p. 37.

"No Digisonics' friends show in comments," Broadcasting, May 24, 1971, p. 62.

"Digisonics' dilemma," Media Decisions, Jun. 1971, 6 pages.

"IDC encoding system still alive at FCC," Broadcasting, Sep. 27, 1971, p. 31.

Howard, Niles A., "IDC drops tv monitoring; mulls revival," reprint from Advertising Age, Feb. 3, 1975, 1 page.

Russell, R.T. "Teletext remote control," part 1, Wireless World, Apr. 1979, 4 pages.

Russell, R.T. "Teletext remote control," part 2, Wireless World, May 1979, pp. 83-86.

Pandey, K. "Second generation teletext and Viewdata decoders," Proceedings IEE, vol. 126, Dec 1979, pp. 1367-1373.

Hedger, J. et al., "Telesoftware: adding intelligence to teletext," Proceedings IEEE, vol. 126, Dec. 1979, pp. 1412-1416.

Sigel, Efrem et al. Videotext: The Coming Revolution in Home/Office Information Retrieval, (White Plains, NY: Knowledge Industry Publications, Inc., 1980), pp. 6, 7, 13, 28, 33, 34, 36, 37.

Roizen, Joseph. "Teletext in the USA," SMPTE Journal, vol. 90, Jul. 1981, pp. 602-610.

Money, Steve A. Teletext and Viewdata (London: Butterworth & Co., Ltd., 1981), preface, pp. 1-145, glossary and index.

Risher, Carol A. "Electronic Media and the Publishers, Part 1: Teletext," Videodisc Videotex, vol. 1, No. 3, Summer 1981, pp. 162-167.

Chew, J.R. "CEEFAX: evolution and potential," BBC Research Department Report No. BBC RD 1977/26, Aug. 1977, table of contents, pp. 1-14 and appendix.

Hedger, John. "Telesoftware: Home computing via teletext," Wireless World, Nov. 1978, pp. 61-64.

Anon. Videotext '81, International Conference & Exhibition, May 20-22, 1981, Toronto, Canada (Northwood Hills, UK: Online Conferences, Ltd; 1981), pp. 78-84.

Winsbury, Rex, ed. Viewdata in Action: A Comparative Study of Prestel (London: McGraw-Hill, Ltd., 1981), pp. 10-12, 31, 35, 36, 57-61, 102, 103, 109, 202-204, 211-219.

"Colloquium on Broadcast and Wired Teletext Systems -- Ceefax, Oracle, Viewdata," Tuesday, 13 Jan. 1976, IEE Electronics Division, Professional Group E14 (Television and Sound), Digest No. 1976/3.

Anon. "Updating databases by off-peak TV," New Scientist, 21 Oct. 1976, p. 162.

Marti, Bernard. "New Ancillary Services Using a Television Channel," SMPTE Journal, vol. 86, Nov. 1977, pp. 815, 817, 818.

Biggs, A.J. et al. "Broadcast data in television," GEC Journal of Science and Technology, vol. 41, No. 4, 1974, pp. 117-124.

Heuer, D.A. "A Microprocessor Controlled Memory Tuning System," Consumer Electronics, vol. CE-25, No. 4, Aug. 1979, pp. 677-683.

Marti, Bernard et al. "Antiope, service de teletexte," journal unk., pp. 17-22.

Lipoff, Stuart J. "Mass Market Potential for Home Terminals," Consumer Electronics, vol. unk., pp. 169-184.

Crowther, G.O., "Adaptation of U.K. Teletext System for 525/60 Operations," IEEE Transactions on Consumer Electronics, vol. CE-26, Aug. 1980, pp. 587-599.

Gosch, John, "Code accompanying TV program turns on video cassette recorder in proposed scheme," Electronics, Feb. 10, 1981, pp. 80-82.

Somers, Eric, "Appropriate Technology for Text Broadcasting," Viewdata and Videotext, 1980-81: A Worldwide Report, Transcript of viewdata '80, first world conference on Viewdata, videotex, and teletext, Knowledge Industry Publications, Inc., White Plains, New York, Copyright 1980 by Online Conferences, Ltd., pp. 499-514.

ART-UNIT: 272

PRIMARY-EXAMINER: Wolinsky; Scott

ATTY-AGENT-FIRM: Howrey & Simon

ABSTRACT:

A unified system of programing communication. The system encompasses the prior art (television, radio, broadcast hardcopy, computer communications, etc.) and new user specific mass media. Within the unified system, parallel processing computer systems, each having an input (e.g., 77) controlling a plurality of computers (e.g., 205), generate and output user information at receiver stations. Under broadcast control, local computers (73, 205), combine user information selectively into prior art communications to exhibit personalized mass media programming at video monitors (202), speakers (263), printers (221), etc. At intermediate transmission stations (e.g., cable television stations), signals in network broadcasts and from local inputs (74, 77, 97, 98) cause control processors (71) and computers (73) to selectively automate connection and operation of receivers (53), recorder/players (76), computers (73), generators (82), strippers (81), etc. At receiver stations, signals in received transmissions and from local inputs (225, 218, 22) cause control processors (200) and computers (205) to automate connection and operation of converters (201), tuners (215), decryptors (224), recorder/players (217), computers (205), furnaces (206), etc. Processors (71, 200) meter and monitor availability and usage of programming.

45 Claims, 30 Drawing figures